

Data File : VV011057.D
Acq On : 28 May 2019 10:31
Operator : SY/MD
Sample : VSTD2.574
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Quant Time: May 28 11:54:49 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM052819S.M
Quant Title : VOC Analysis
QLast Update : Tue May 28 11:51:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	570980	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	524094	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	231359	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	21573	3.31	ug/L	0.00
7) Chloroethane-d5	1.56	69	15127	3.43	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	38482	3.07	ug/L	0.00
20) 2-Butanone-d5	3.95	46	10077	4.49	ug/L	0.02
24) Chloroform-d	4.40	84	36294	2.45	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	20286	2.33	ug/L	0.00
29) Benzene-d6	5.09	84	79476	2.78	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.11	67	23694	2.61	ug/L	0.00
37) Toluene-d8	7.36	98	72843	2.74	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.67	79	10466	2.80	ug/L	0.00
39) 2-Hexanone-d5	8.13	63	9268	5.47	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	18374	2.02	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	23937	2.55	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	22355	2.652 ug/L	100
3) Chloromethane	1.25	50	21056	2.758 ug/L	97
5) Vinyl chloride	1.32	62	20041	2.613 ug/L	91
6) Bromomethane	1.51	94	9558	3.574 ug/L	95
8) Chloroethane	1.58	64	10573	2.755 ug/L	95
9) Trichlorofluoromethane	1.76	101	26971	2.207 ug/L	98
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	15752	2.260 ug/L	97
12) 1,1-Dichloroethene	2.13	96	14761	2.450 ug/L	96
13) Acetone	2.19	43	13584	6.271 ug/L	95
14) Carbon disulfide	2.31	76	48236	2.859 ug/L	99
15) Methyl Acetate	2.46	43	11502	2.764 ug/L #	100
16) Methylene chloride	2.53	84	21922	2.237 ug/L	90
17) Methyl tert-butyl Ether	2.81	73	48919	2.295 ug/L	96
18) trans-1,2-Dichloroethene	2.78	96	19480	2.344 ug/L	97
19) 1,1-Dichloroethane	3.22	63	37596	2.484 ug/L	97
21) 2-Butanone	4.03	43	8842	2.983 ug/L	86
22) cis-1,2-Dichloroethene	3.96	96	21576	2.331 ug/L	98
23) Bromochloromethane	4.30	128	9176	2.092 ug/L	91
25) Chloroform	4.42	83	38943	2.274 ug/L	97
27) 1,2-Dichloroethane	5.18	62	22897	2.175 ug/L #	94
30) Cyclohexane	4.72	56	40219	3.693 ug/L	100
31) 1,1,1-Trichloroethane	4.65	97	30300	2.570 ug/L	98
32) Carbon tetrachloride	4.87	117	26822	2.495 ug/L	95
34) Benzene	5.14	78	81028	2.682 ug/L	100
35) Trichloroethene	5.96	95	21207	2.541 ug/L	96
36) Methylcyclohexane	6.17	83	38601	3.128 ug/L	98
40) 1,2-Dichloropropane	6.22	63	20672	2.604 ug/L #	97
41) Bromodichloromethane	6.55	83	25196	2.374 ug/L	99
42) cis-1,3-Dichloropropene	7.07	75	32614	2.760 ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	34753	6.106 ug/L	100

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Quant Title : VOC Analysis
QLast Update : Tue May 28 11:51:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	87115	2.598	ug/L	98
45) trans-1,3-Dichloropropene	7.69	75	26420	2.654	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	14845	2.194	ug/L	94
47) Tetrachloroethene	8.02	164	15571	2.390	ug/L	96
49) 2-Hexanone	8.19	43	19722	4.746	ug/L	97
50) Dibromochloromethane	8.29	129	16423	2.062	ug/L	97
51) 1,2-Dibromoethane	8.40	107	13448	2.055	ug/L #	94
52) Chlorobenzene	8.92	112	52484	2.284	ug/L	96
53) Ethylbenzene	9.05	91	98632	2.700	ug/L	99
54) m,p-Xylene	9.18	106	36906	2.592	ug/L	92
55) o-xylene	9.59	106	35132	2.586	ug/L	95
56) Styrene	9.60	104	56782	2.425	ug/L	98
57) Isopropylbenzene	9.97	105	96000	2.679	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	18171	2.040	ug/L	99
59) 1,2,3-Trichloropropane	10.32	75	13919	2.127	ug/L	98
62) Bromoform	9.77	173	9184	2.236	ug/L	100
63) 1,3-Dichlorobenzene	11.23	146	38325	2.429	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	38120	2.346	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	35701	2.333	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	3379	2.780	ug/L	90
67) 1,3,5-Trichlorobenzene	12.69	180	27576	2.382	ug/L	97
68) 1,2,4-trichlorobenzene	13.31	180	19052	2.082	ug/L	99
69) Naphthalene	13.55	128	32554	1.775	ug/L	98
70) 1,2,3-Trichlorobenzene	13.79	180	17176	1.923	ug/L	98

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

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ALS Vial      : 1      Sample Multiplier: 1
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Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

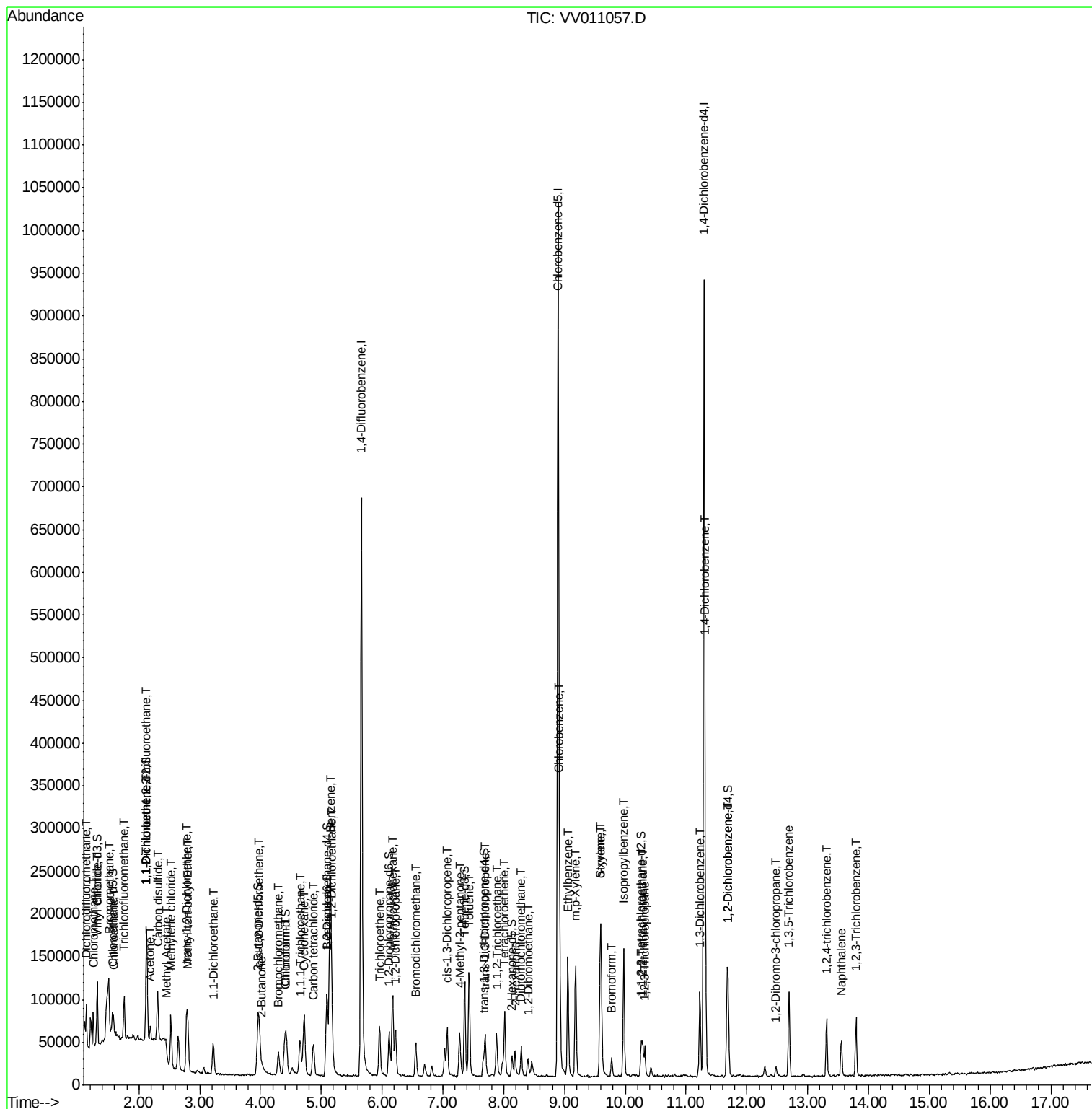
Quant Time: May 28 11:54:49 2019

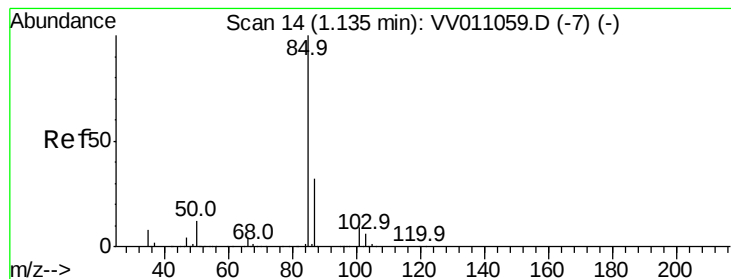
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM052819S.M

Quant Title : VOC Analysis

QLast Update : Tue May 28 11:51:54 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 2.652 ug/L

RT: 1.14 min Scan# 14

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

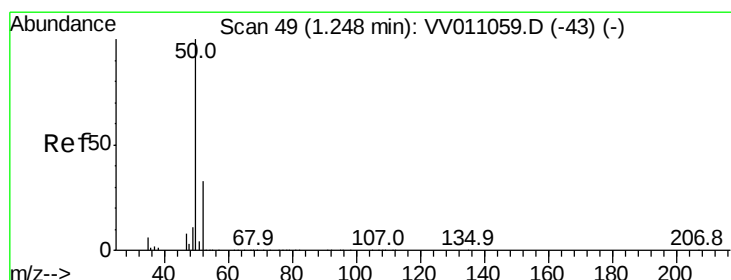
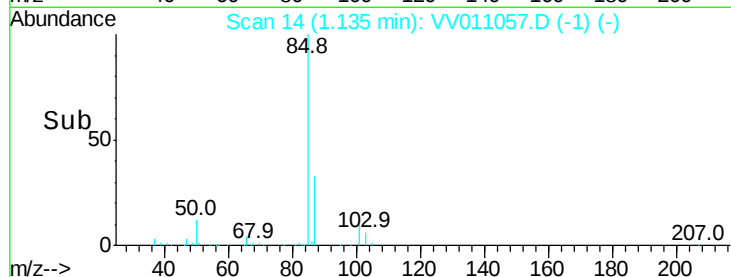
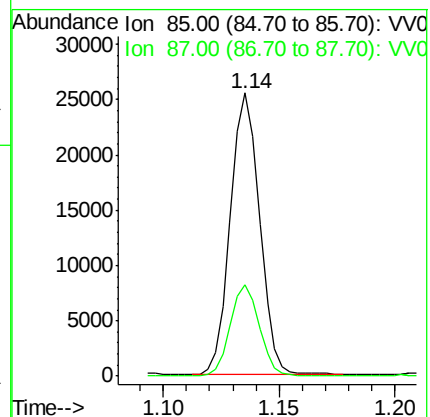
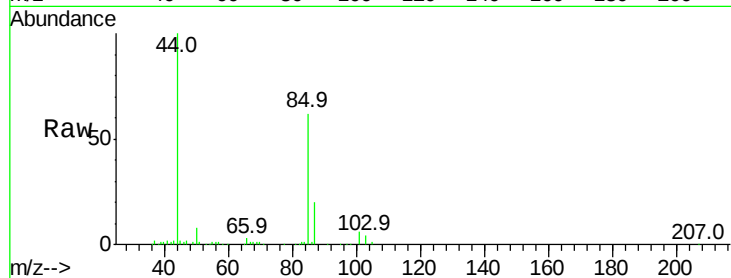
VSTD2.566

Tgt Ion: 85 Resp: 22355

Ion Ratio Lower Upper

85 100

87 32.0 22.5 41.9



#3

Chloromethane

Concen: 2.758 ug/L

RT: 1.25 min Scan# 49

Delta R.T. 0.00 min

Lab File: VV011057.D

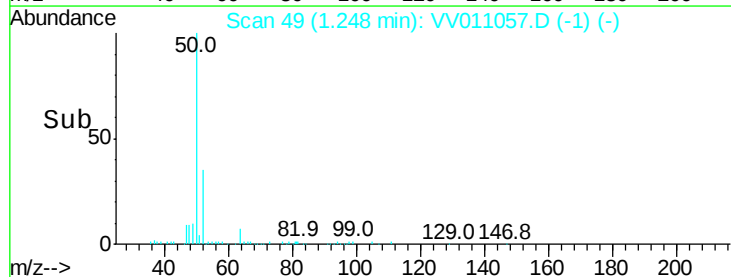
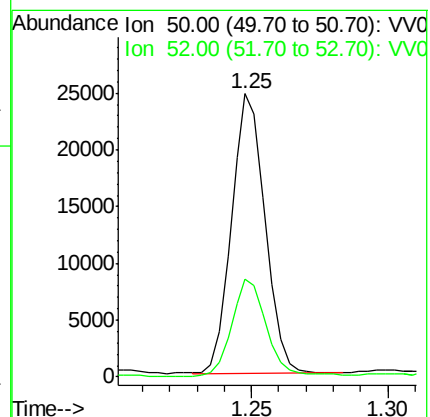
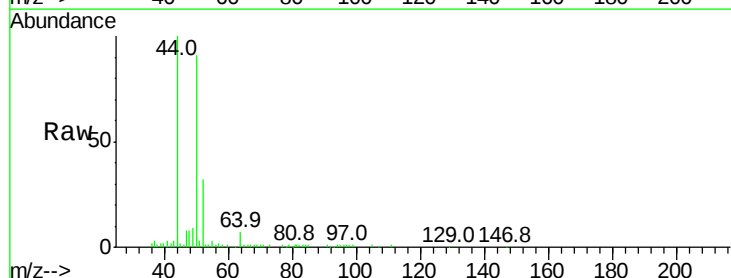
Acq: 28 May 2019 10:31

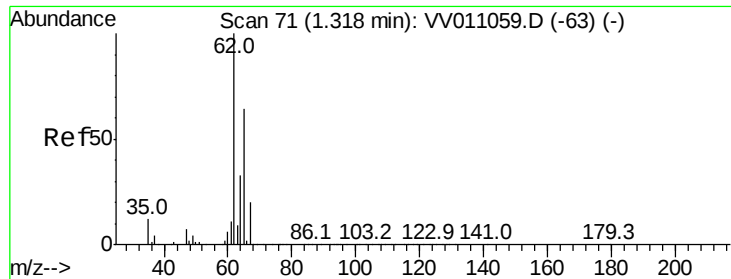
Tgt Ion: 50 Resp: 21056

Ion Ratio Lower Upper

50 100

52 34.5 22.9 42.5





#5

Vinyl chloride

Concen: 2.613 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

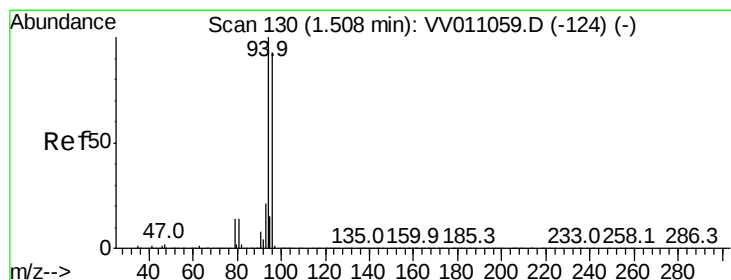
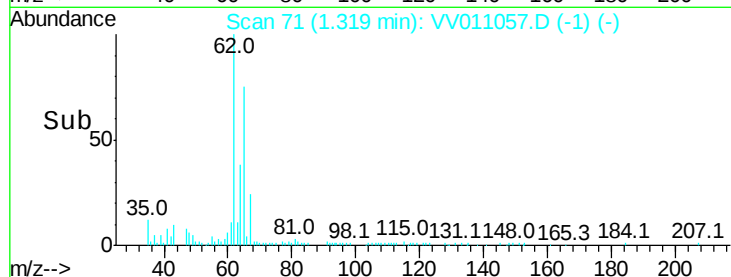
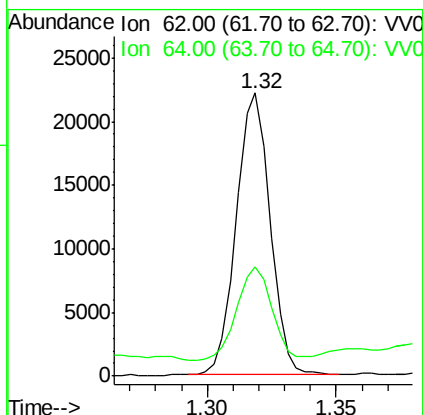
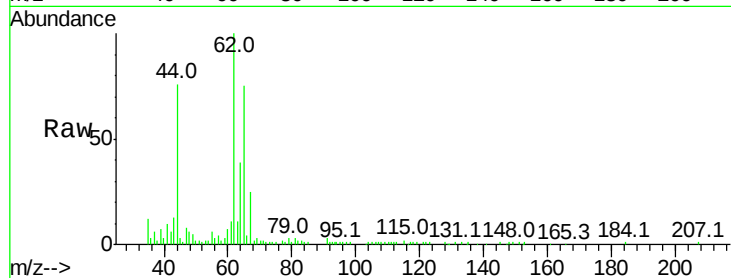
VSTD2.566

Tgt Ion: 62 Resp: 20041

Ion Ratio Lower Upper

62 100

64 38.7 23.4 43.6



#6

Bromomethane

Concen: 3.574 ug/L

RT: 1.51 min Scan# 131

Delta R.T. 0.00 min

Lab File: VV011057.D

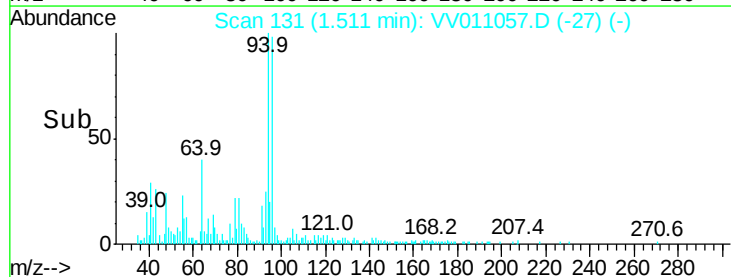
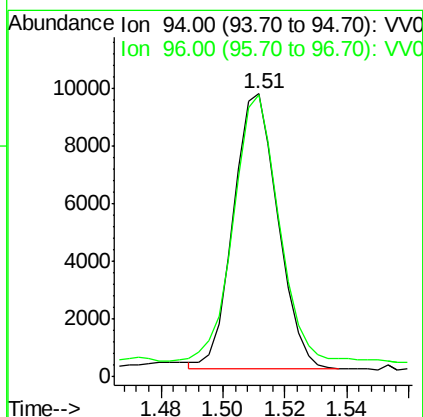
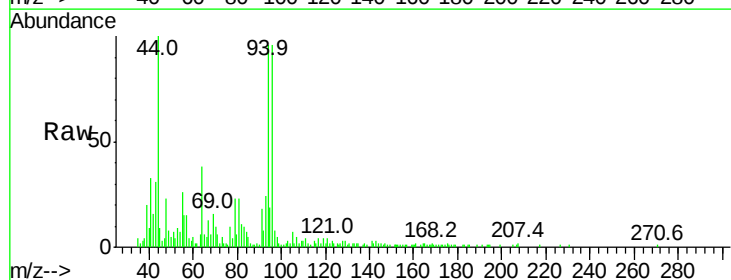
Acq: 28 May 2019 10:31

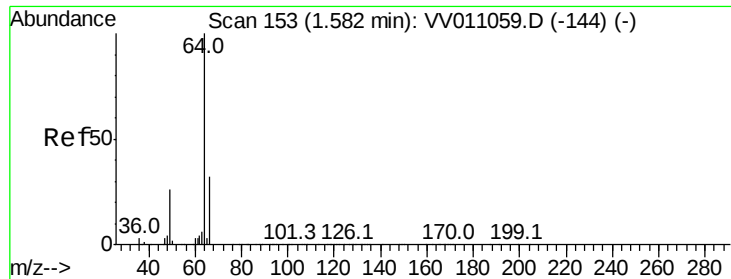
Tgt Ion: 94 Resp: 9558

Ion Ratio Lower Upper

94 100

96 99.6 9.5 179.7





#8

Chloroethane

Concen: 2.755 ug/L

RT: 1.58 min Scan# 153

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

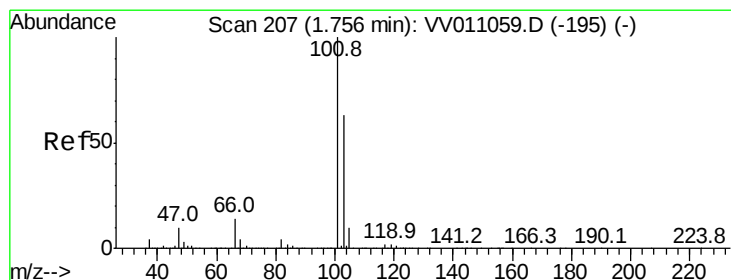
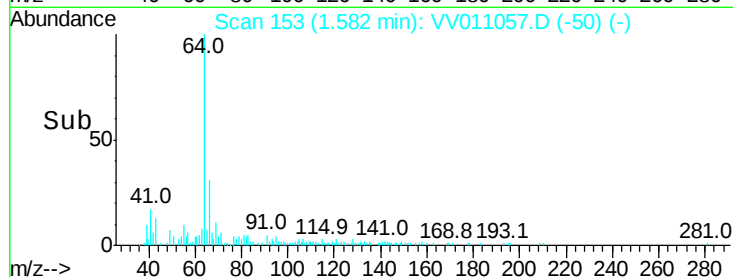
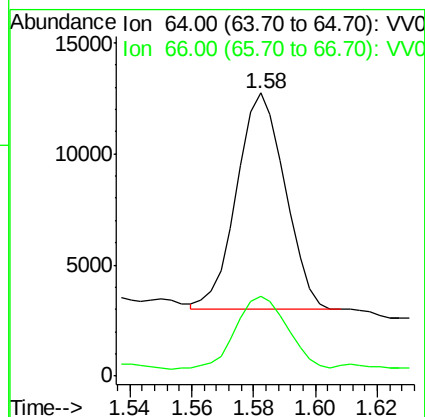
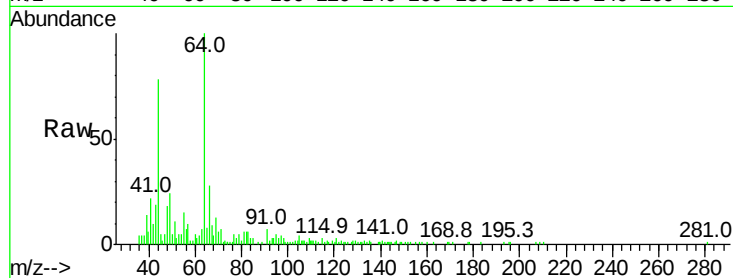
VSTD2.566

Tgt Ion: 64 Resp: 10573

Ion Ratio Lower Upper

64 100

66 28.2 21.7 40.3



#9

Trichlorofluoromethane

Concen: 2.207 ug/L

RT: 1.76 min Scan# 207

Delta R.T. 0.00 min

Lab File: VV011057.D

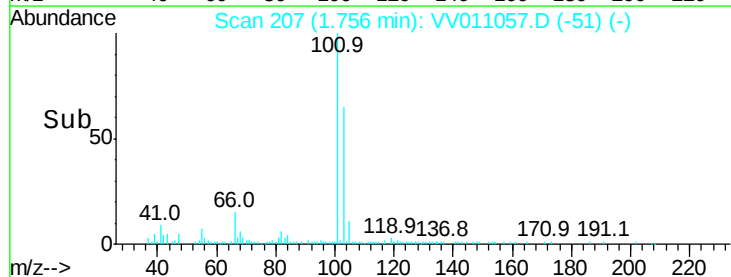
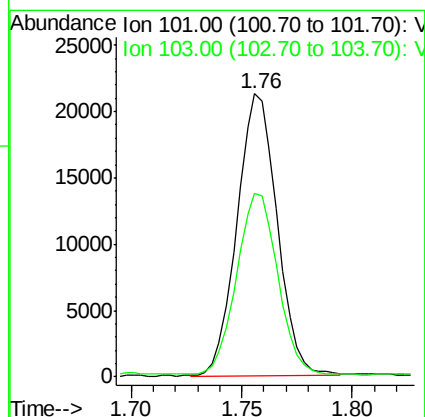
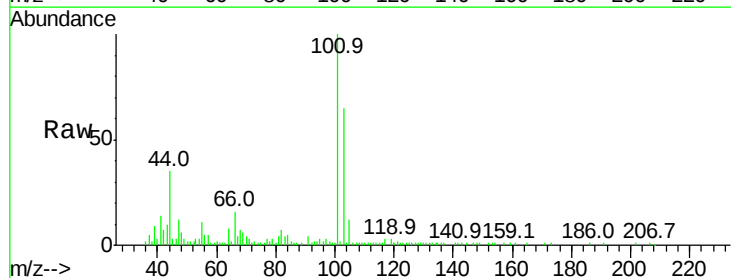
Acq: 28 May 2019 10:31

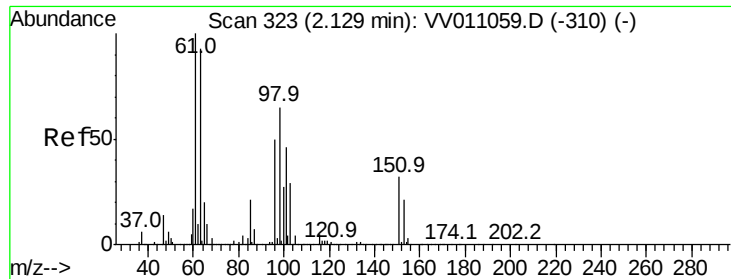
Tgt Ion: 101 Resp: 26971

Ion Ratio Lower Upper

101 100

103 65.1 44.4 82.4





#11

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

Concen: 2.260 ug/L

RT: 2.13 min Scan# 323

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

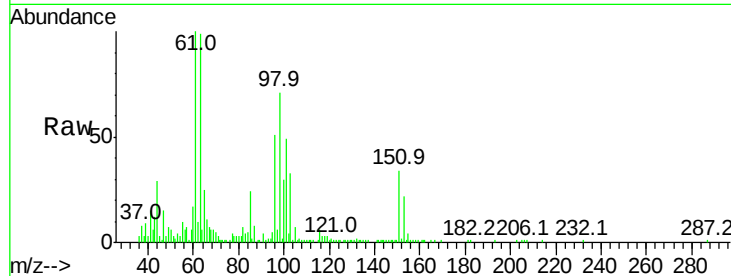
Tgt Ion:101 Resp: 15752

Ion Ratio Lower Upper

101 100

85 43.8 36.1 54.1

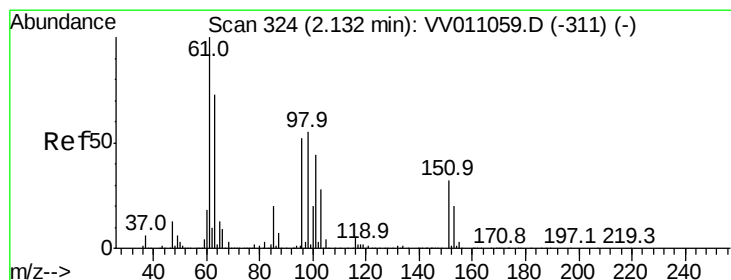
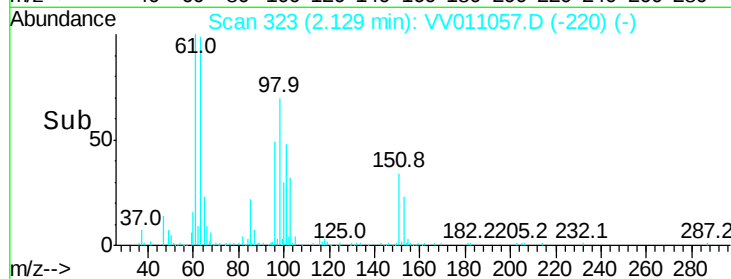
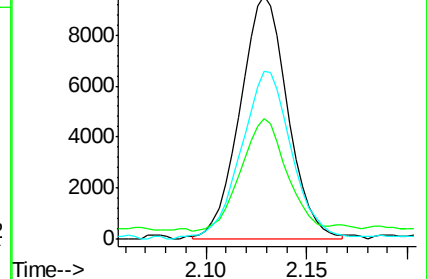
151 73.5 56.6 85.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 2.450 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

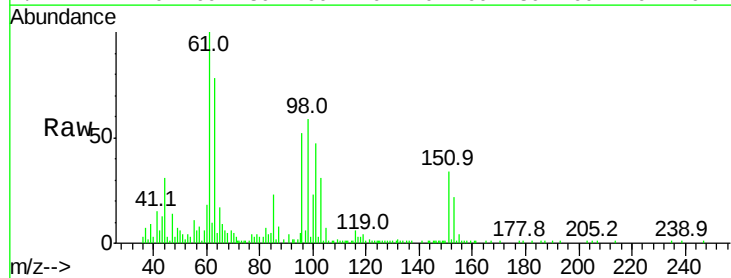
Tgt Ion: 96 Resp: 14761

Ion Ratio Lower Upper

96 100

61 192.3 134.1 249.1

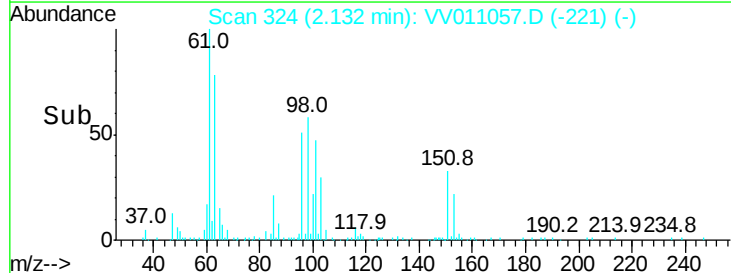
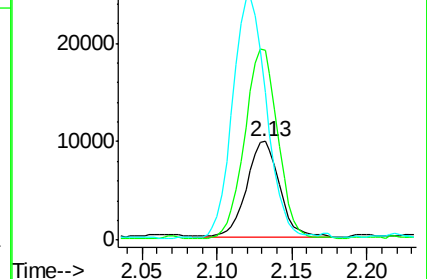
63 150.2 98.1 182.3

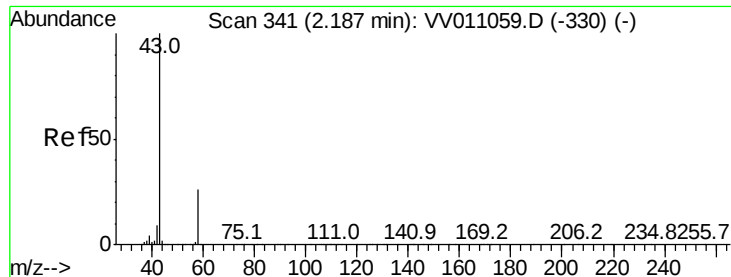


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.271 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

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ClientSampleId :

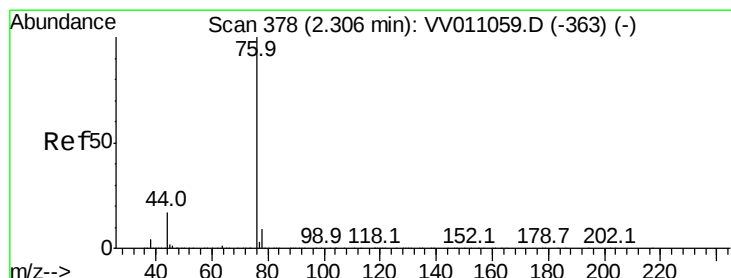
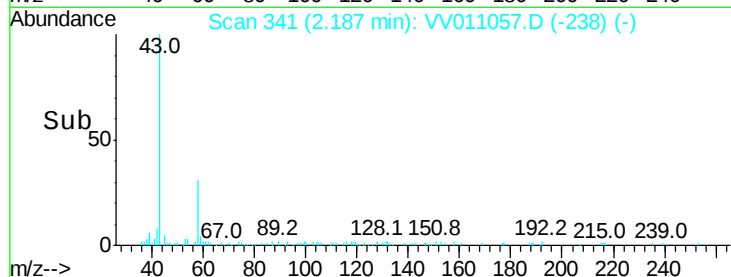
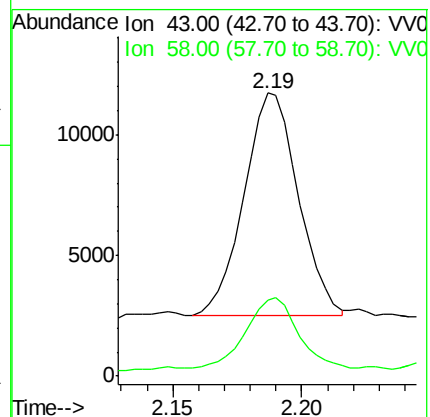
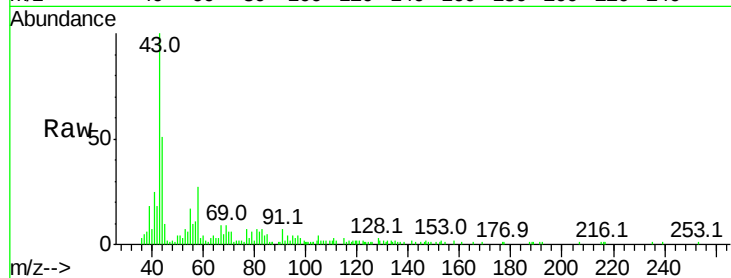
VSTD2.566

Tgt Ion: 43 Resp: 13584

Ion Ratio Lower Upper

43 100

58 30.3 0.0 54.8



#14

Carbon disulfide

Concen: 2.859 ug/L

RT: 2.31 min Scan# 378

Delta R.T. 0.00 min

Lab File: VV011057.D

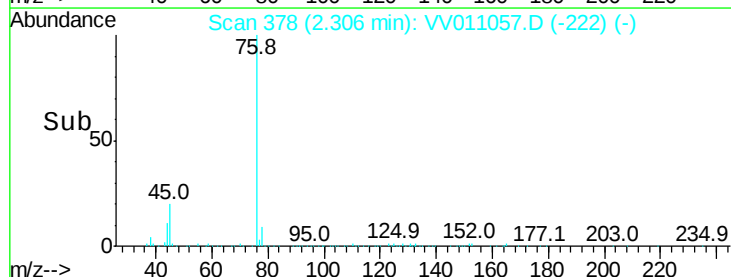
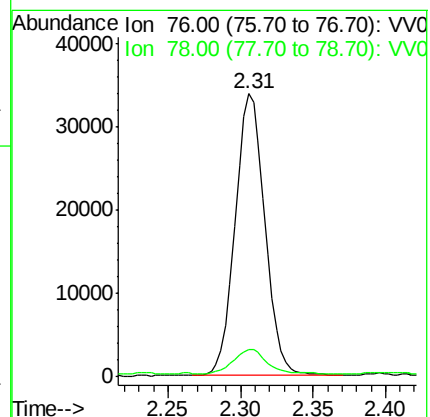
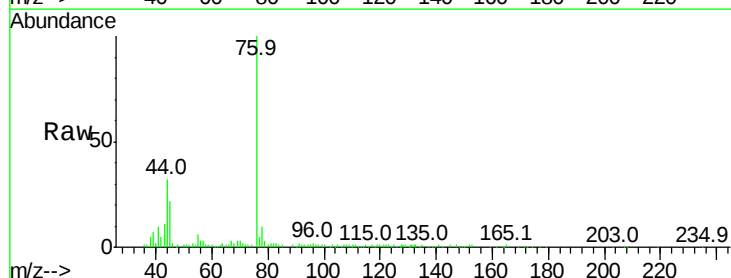
Acq: 28 May 2019 10:31

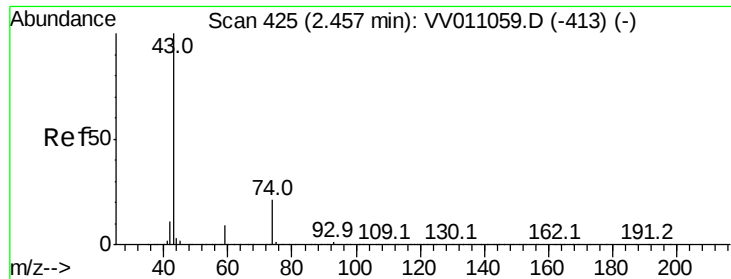
Tgt Ion: 76 Resp: 48236

Ion Ratio Lower Upper

76 100

78 9.6 7.3 10.9





#15

Methyl Acetate

Concen: 2.764 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

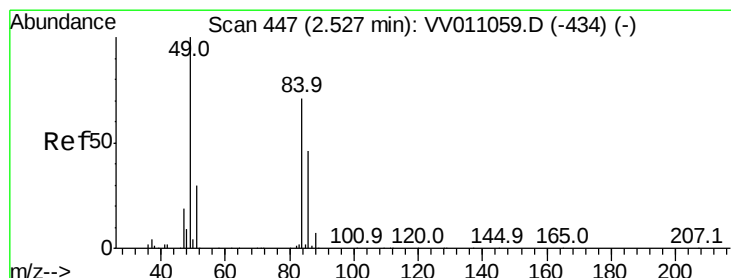
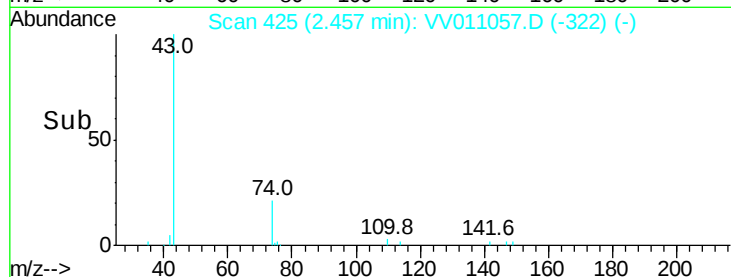
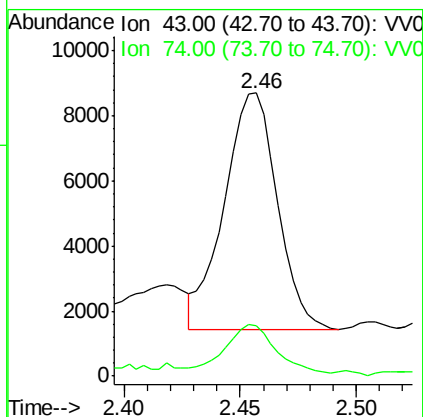
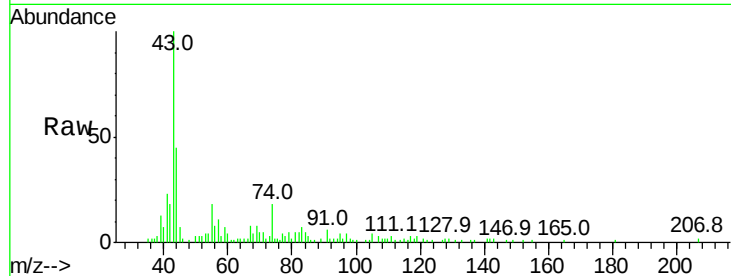
VSTD2.566

Tgt Ion: 43 Resp: 11502

Ion Ratio Lower Upper

43 100

74 18.8 0.0 0.0#



#16

Methylene chloride

Concen: 2.237 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

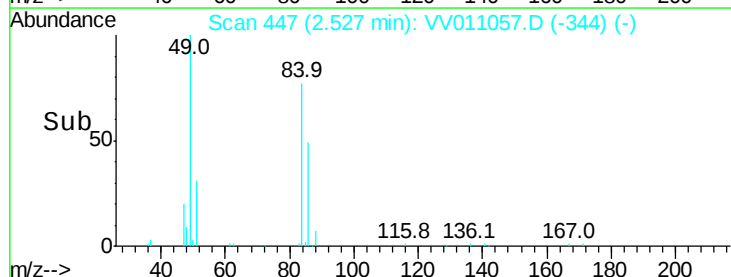
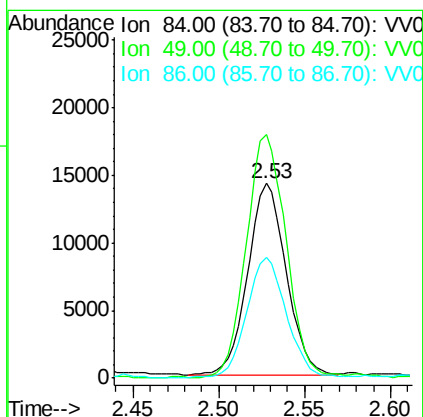
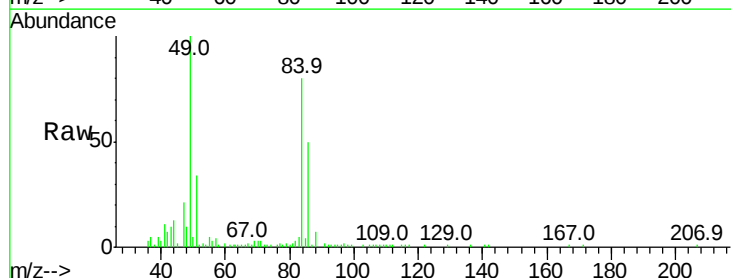
Tgt Ion: 84 Resp: 21922

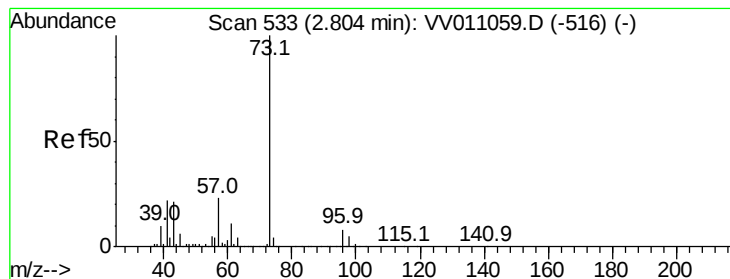
Ion Ratio Lower Upper

84 100

49 125.0 98.0 182.0

86 62.1 45.4 84.4





#17

Methyl tert-butyl Ether

Concen: 2.295 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

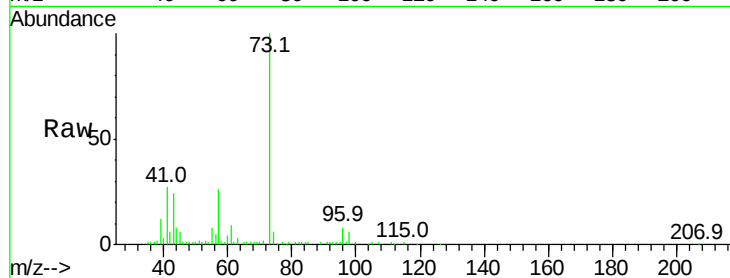
Tgt Ion: 73 Resp: 48919

Ion Ratio Lower Upper

73 100

43 24.2 17.2 25.8

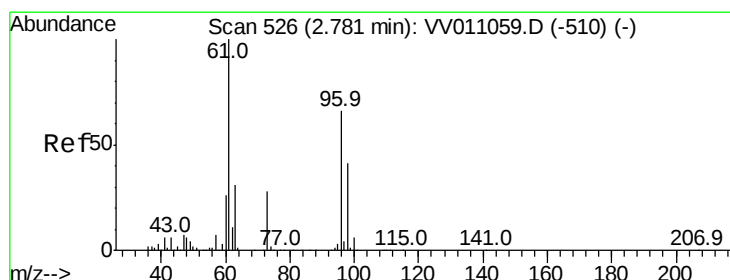
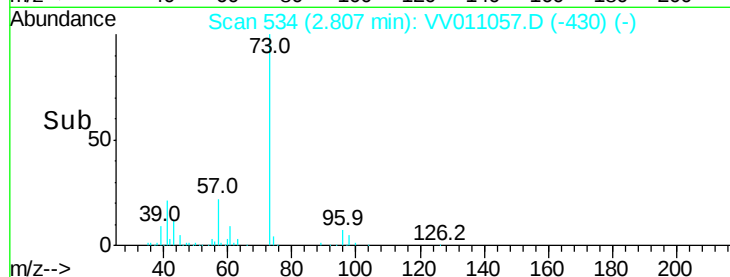
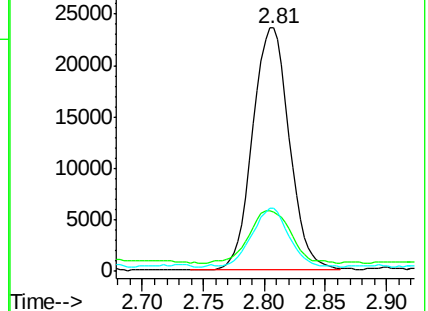
57 24.4 18.5 27.7



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



#18

trans-1,2-Dichloroethene

Concen: 2.344 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

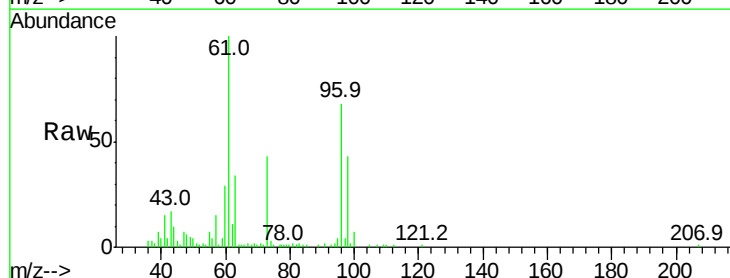
Tgt Ion: 96 Resp: 19480

Ion Ratio Lower Upper

96 100

61 147.0 106.5 197.9

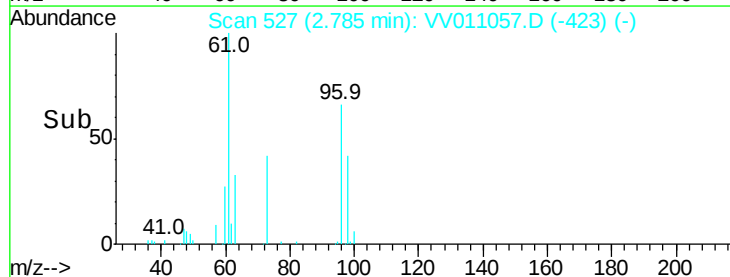
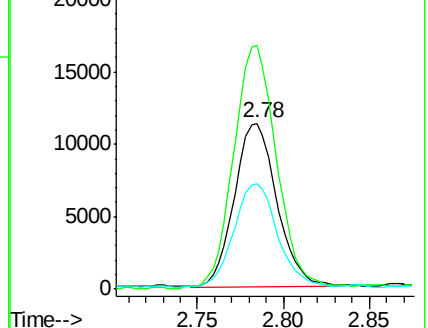
98 63.3 44.0 81.8

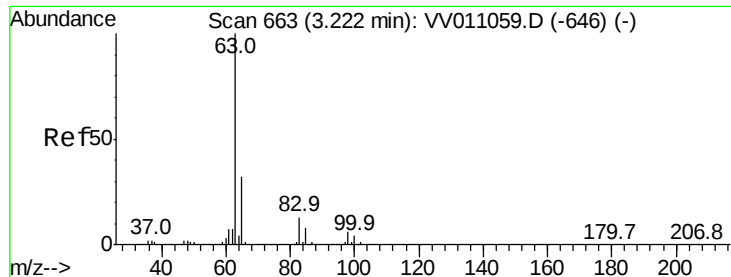


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 2.484 ug/L

RT: 3.22 min Scan# 663

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

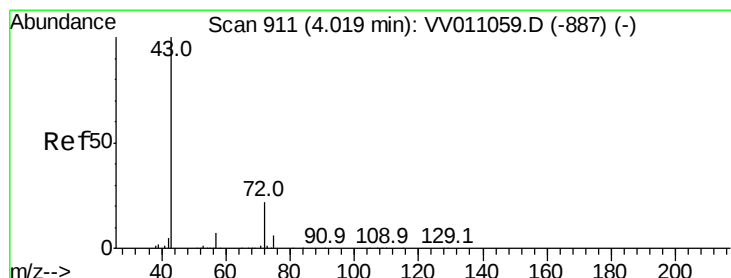
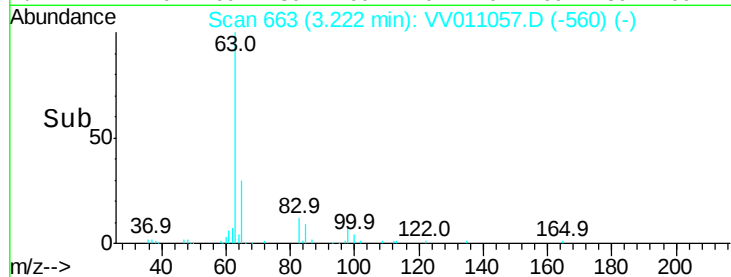
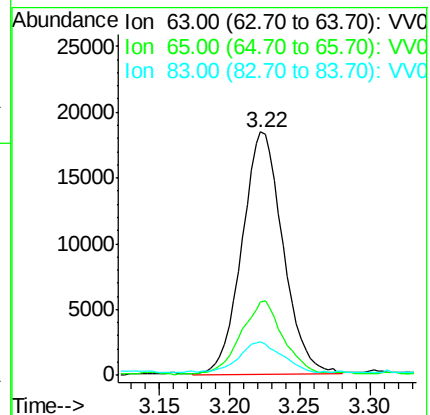
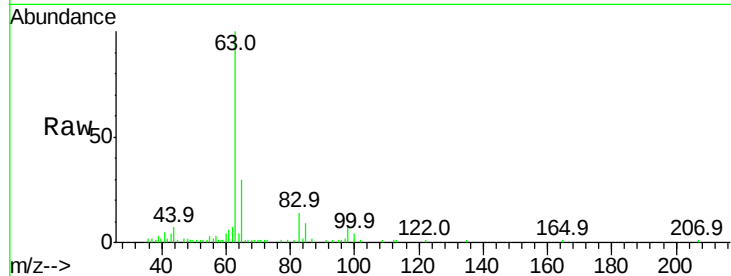
Tgt Ion: 63 Resp: 37596

Ion Ratio Lower Upper

63 100

65 30.2 22.4 41.6

83 13.6 9.2 17.2



#21

2-Butanone

Concen: 2.983 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV011057.D

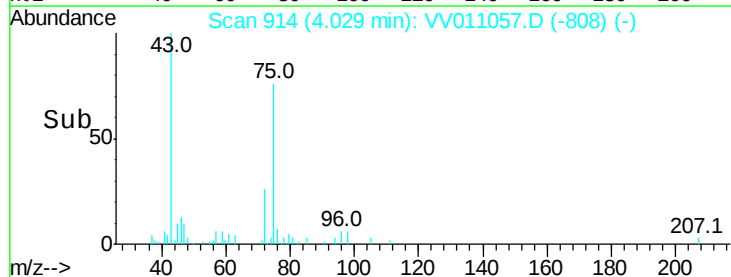
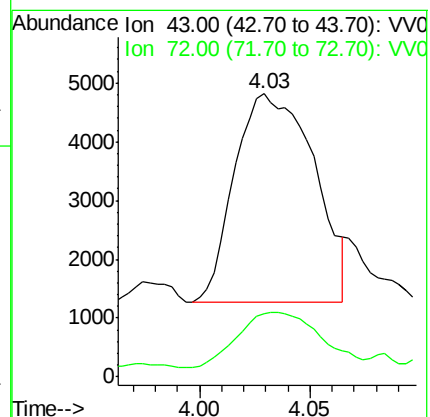
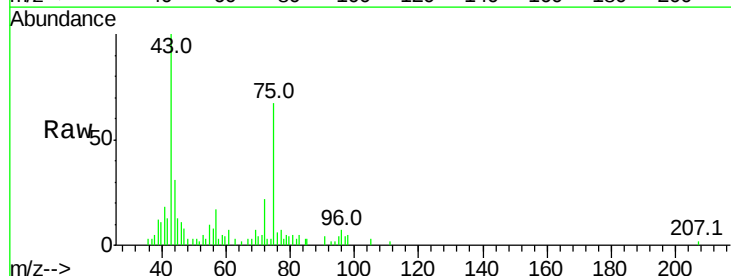
Acq: 28 May 2019 10:31

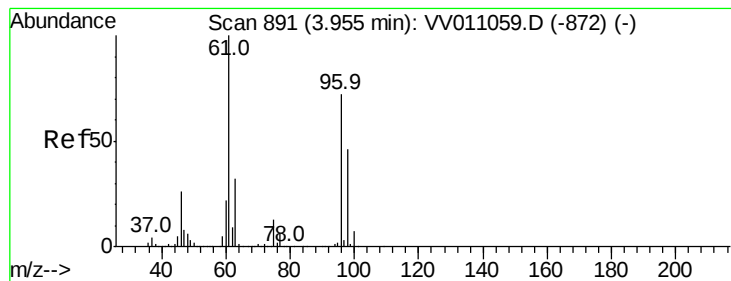
Tgt Ion: 43 Resp: 8842

Ion Ratio Lower Upper

43 100

72 28.0 10.7 31.9





#22

cis-1,2-Dichloroethene

Concen: 2.331 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

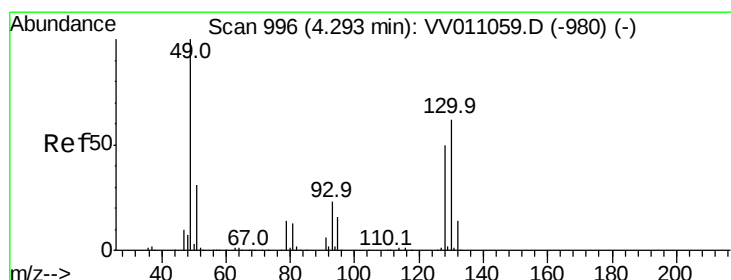
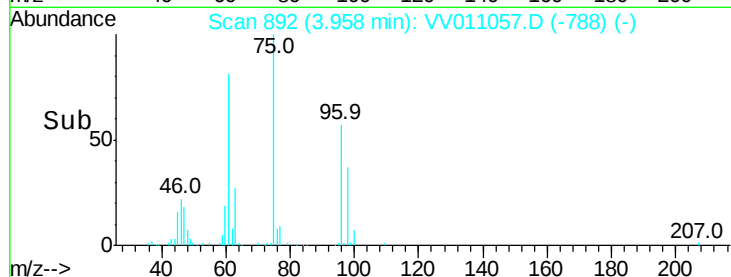
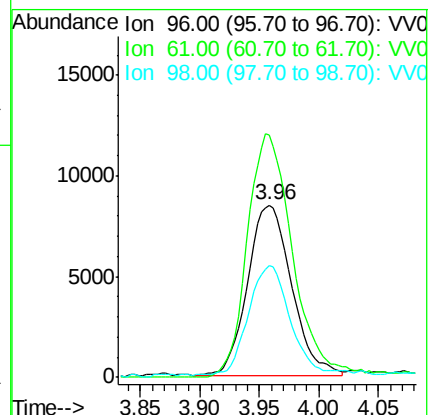
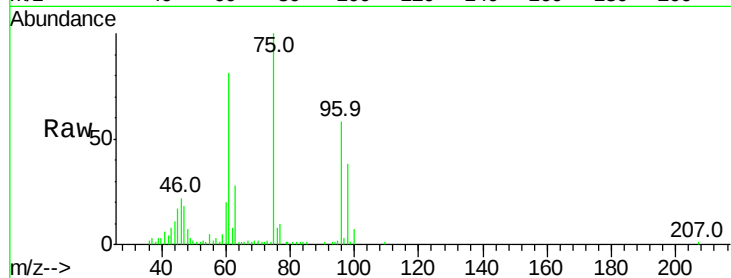
Tgt Ion: 96 Resp: 21576

Ion Ratio Lower Upper

96 100

61 140.9 97.4 180.8

98 64.9 44.4 82.5



#23

Bromochloromethane

Concen: 2.092 ug/L

RT: 4.30 min Scan# 997

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Tgt Ion: 128 Resp: 9176

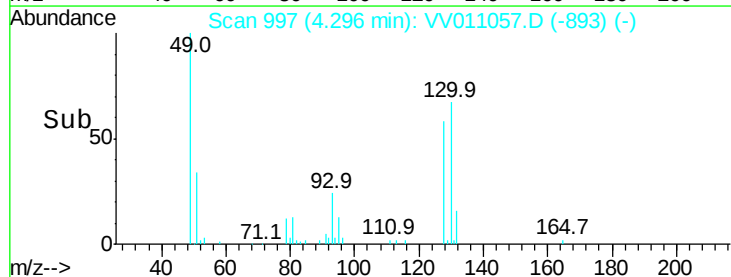
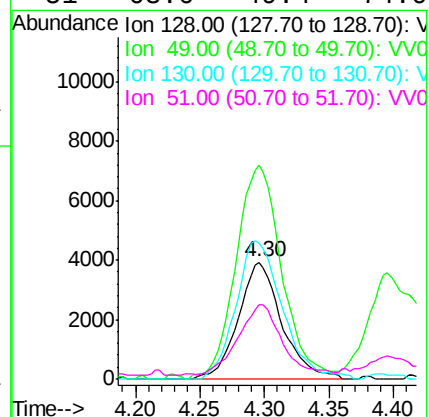
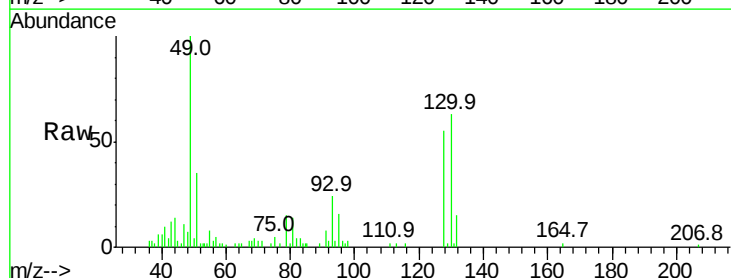
Ion Ratio Lower Upper

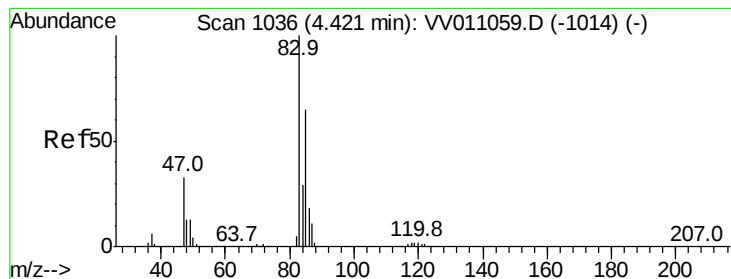
128 100

49 182.3 140.6 261.0

130 115.6 87.2 162.0

51 63.0 49.4 74.0





#25

Chloroform

Concen: 2.274 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

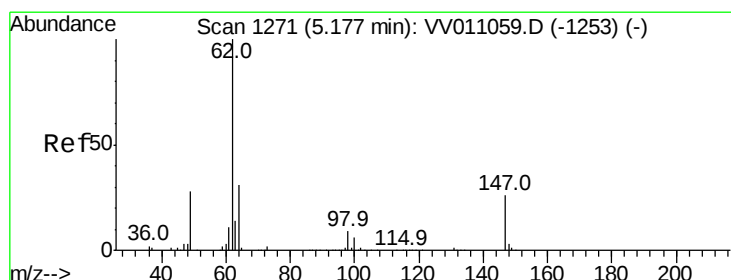
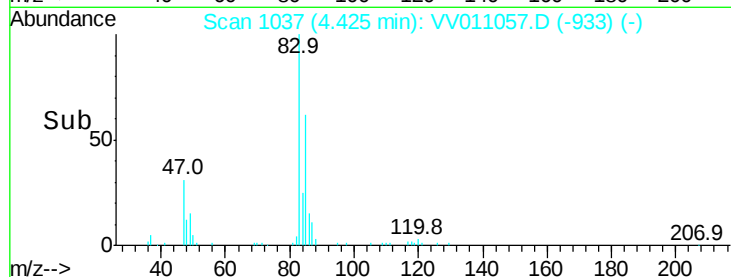
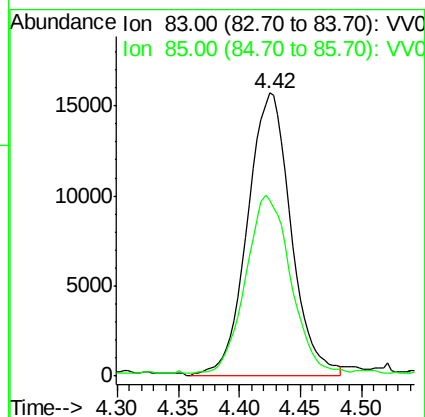
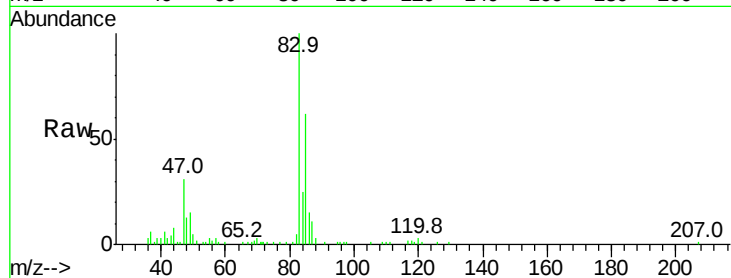
VSTD2.566

Tgt Ion: 83 Resp: 38943

Ion Ratio Lower Upper

83 100

85 63.6 46.2 85.8



#27

1,2-Dichloroethane

Concen: 2.175 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VV011057.D

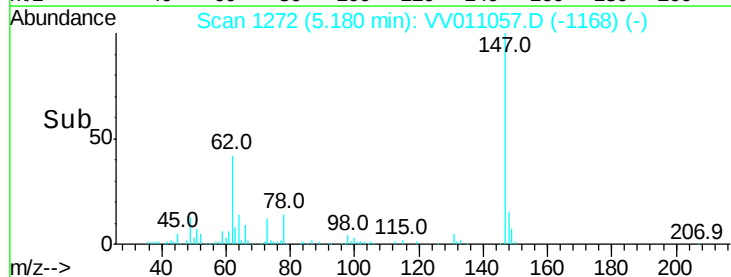
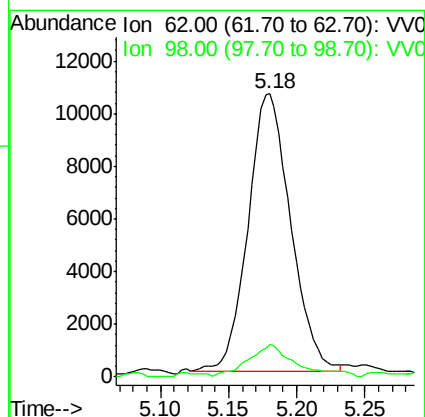
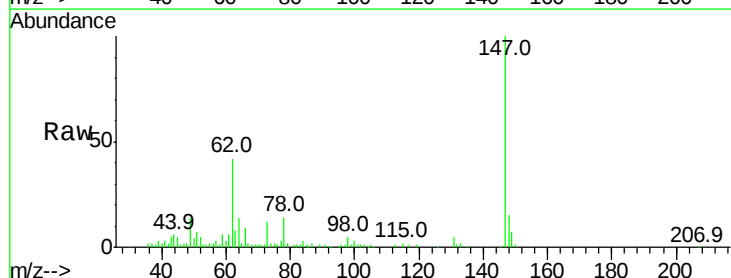
Acq: 28 May 2019 10:31

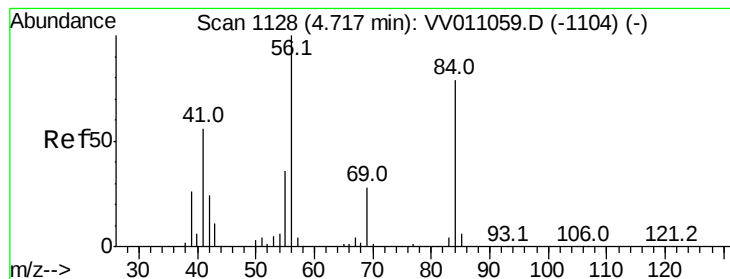
Tgt Ion: 62 Resp: 22897

Ion Ratio Lower Upper

62 100

98 11.4 7.4 11.0#





#30

Cyclohexane

Concen: 3.693 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

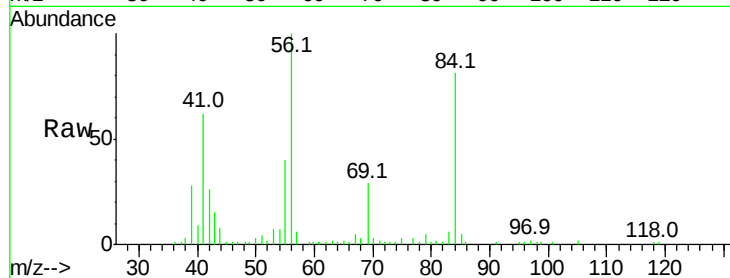
Tgt Ion: 56 Resp: 40219

Ion Ratio Lower Upper

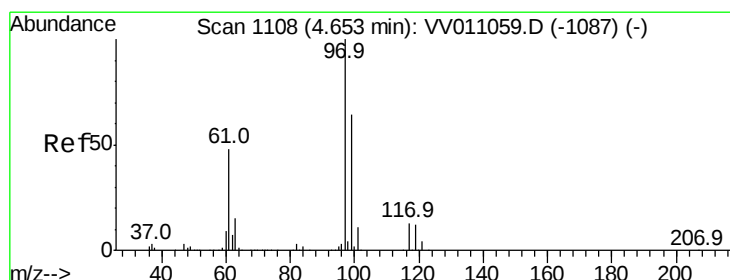
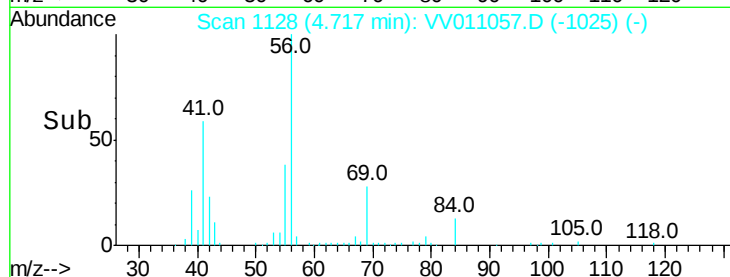
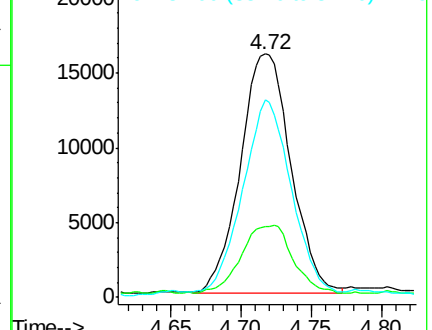
56 100

69 29.1 23.2 34.8

84 78.8 63.2 94.8



Abundance Ion 56.00 (55.70 to 56.70): VV0
Ion 69.00 (68.70 to 69.70): VV0
Ion 84.00 (83.70 to 84.70): VV0



#31

1,1,1-Trichloroethane

Concen: 2.570 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

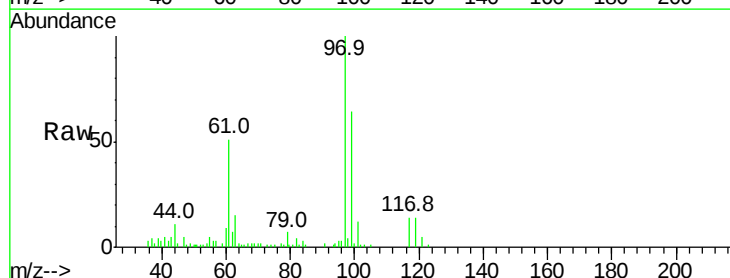
Tgt Ion: 97 Resp: 30300

Ion Ratio Lower Upper

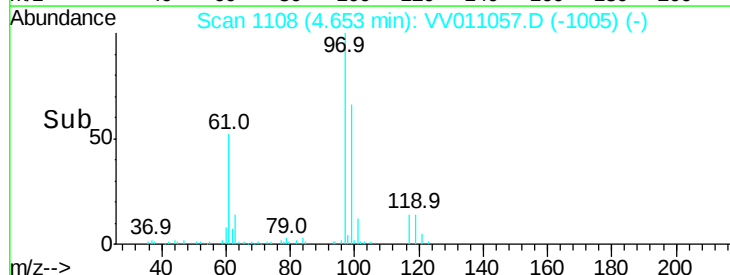
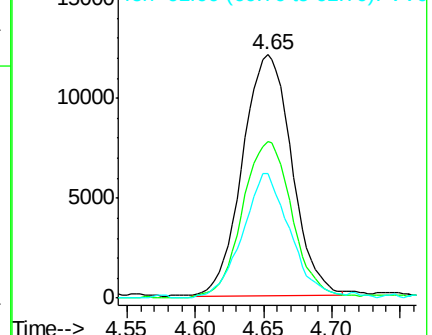
97 100

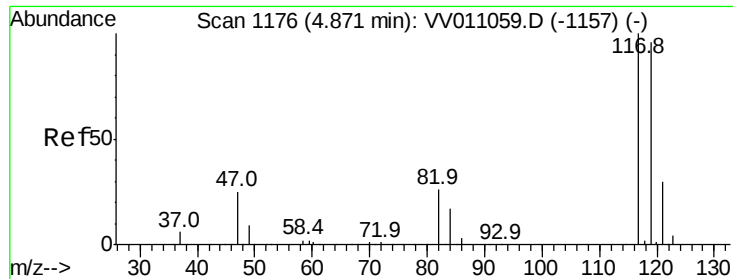
99 65.7 51.5 77.3

61 49.7 38.2 57.2



Abundance Ion 97.00 (96.70 to 97.70): VV0
Ion 99.00 (98.70 to 99.70): VV0
Ion 61.00 (60.70 to 61.70): VV0





#32

Carbon tetrachloride

Concen: 2.495 ug/L

RT: 4.87 min Scan# 1175

Delta R.T. -0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

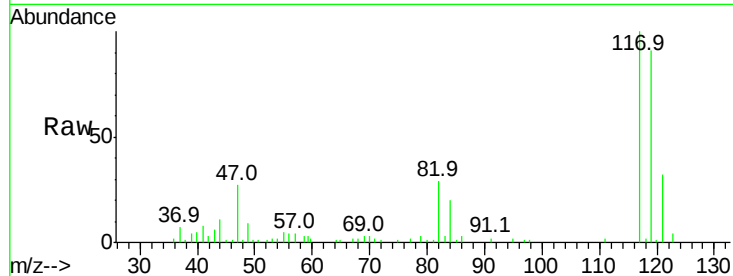
VSTD2.566

Tgt Ion:117 Resp: 26822

Ion Ratio Lower Upper

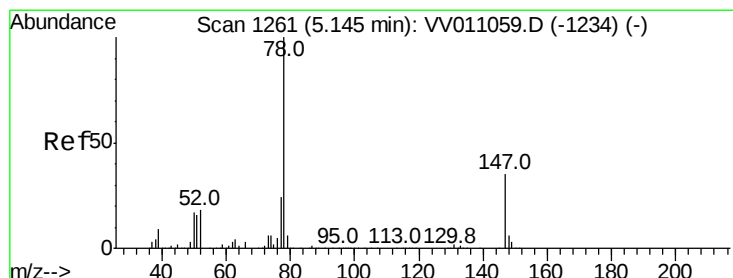
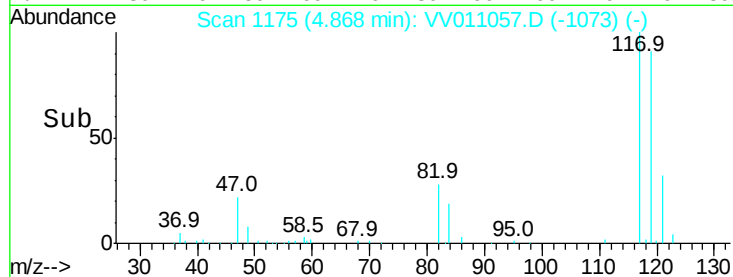
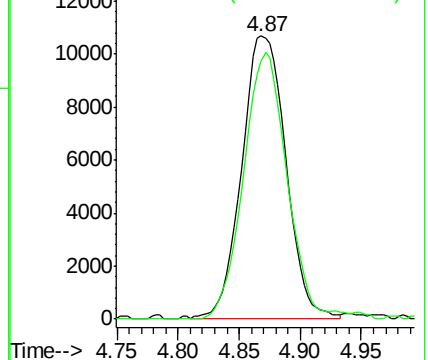
117 100

119 91.3 76.6 115.0



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 2.682 ug/L

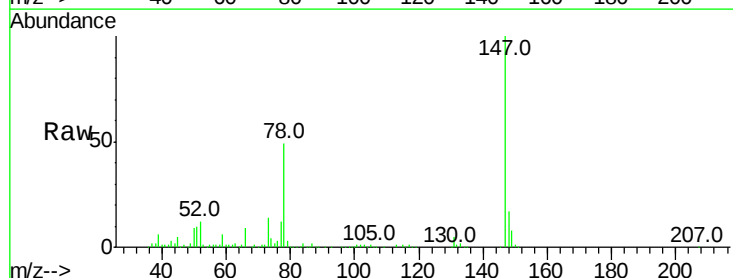
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

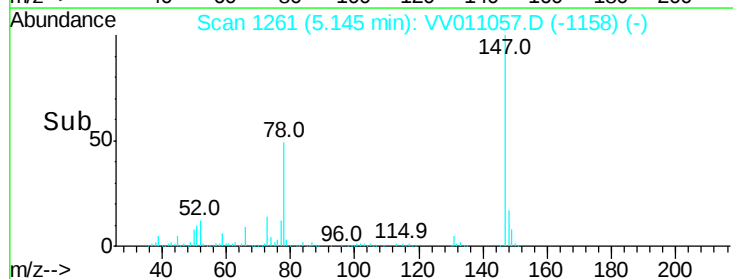
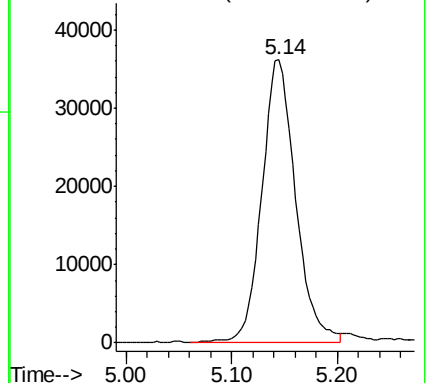
Lab File: VV011057.D

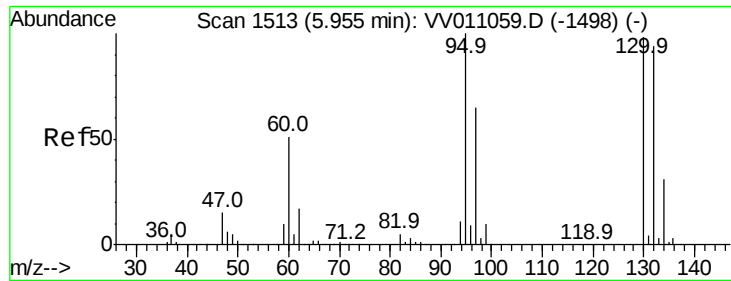
Acq: 28 May 2019 10:31

Tgt Ion: 78 Resp: 81028



Abundance Ion 78.00 (77.70 to 78.70): VV0

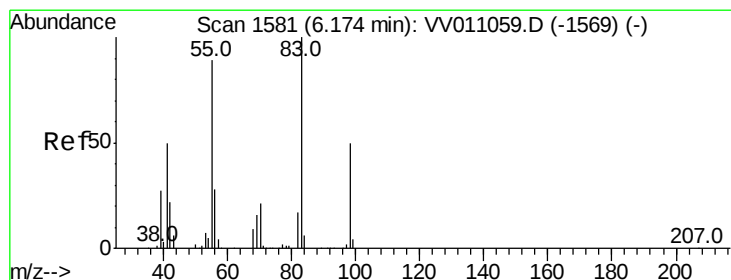
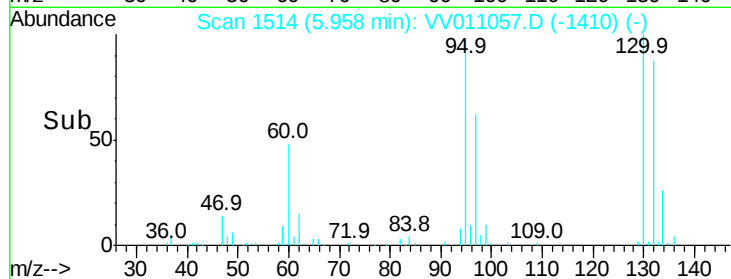
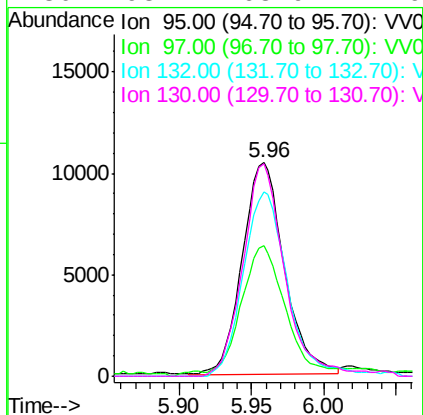
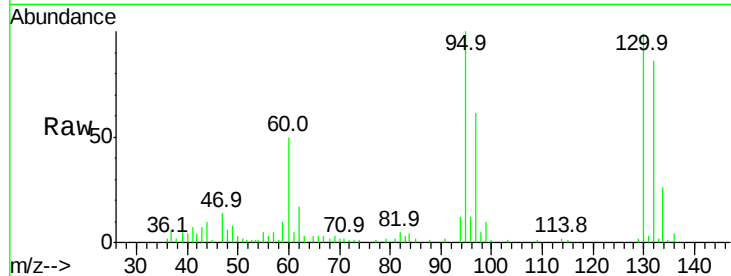




#35
 Trichloroethene
 Concen: 2.541 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

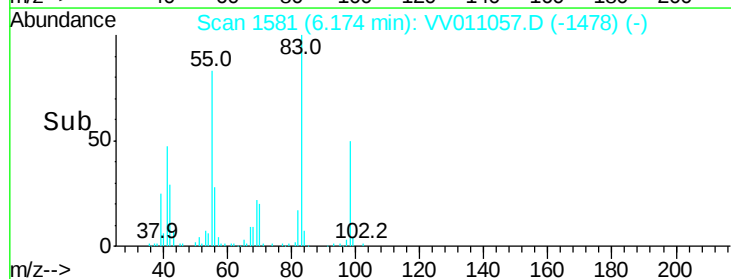
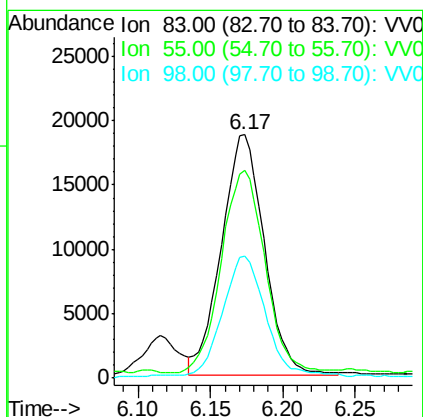
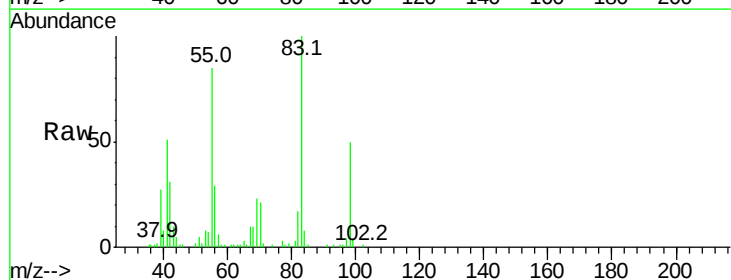
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.566

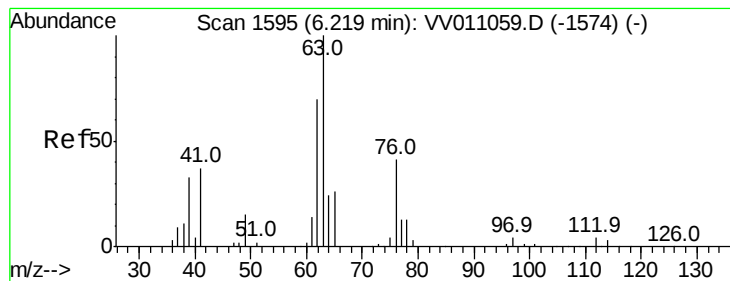
Tgt Ion:	95	Resp:	21207
Ion	Ratio	Lower	Upper
95	100		
97	59.2	45.4	84.4
132	88.4	66.1	122.8
130	98.2	68.9	127.9



#36
 Methylcyclohexane
 Concen: 3.128 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

Tgt Ion:	83	Resp:	38601
Ion	Ratio	Lower	Upper
83	100		
55	85.1	69.9	104.9
98	48.4	40.0	60.0





#40

1,2-Dichloropropane

Concen: 2.604 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

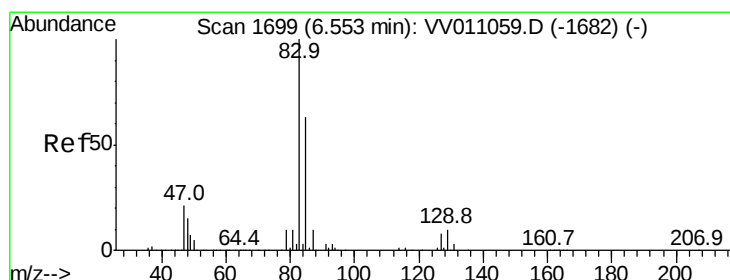
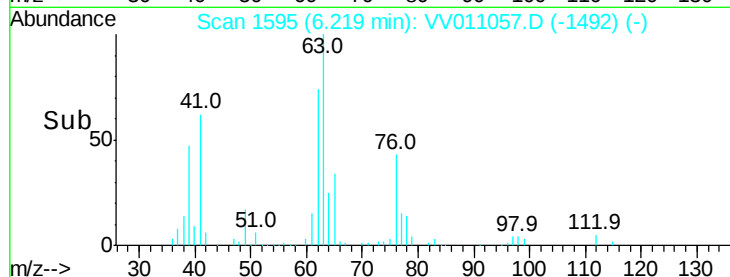
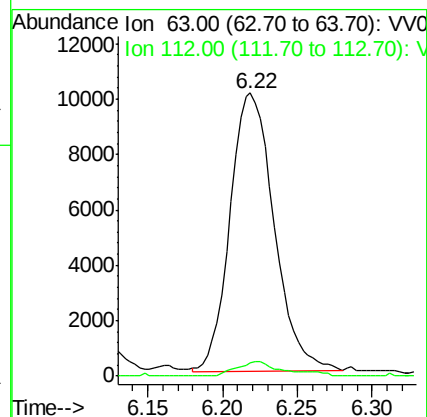
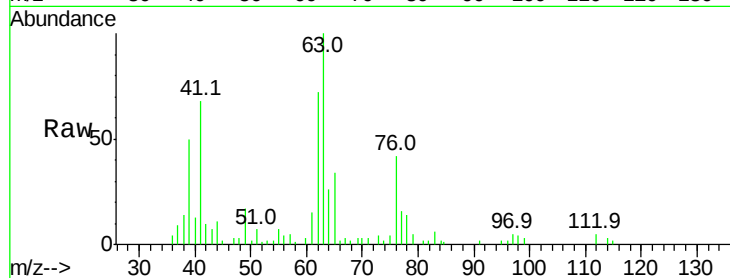
VSTD2.566

Tgt Ion: 63 Resp: 20672

Ion Ratio Lower Upper

63 100

112 5.1 3.3 4.9#



#41

Bromodichloromethane

Concen: 2.374 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

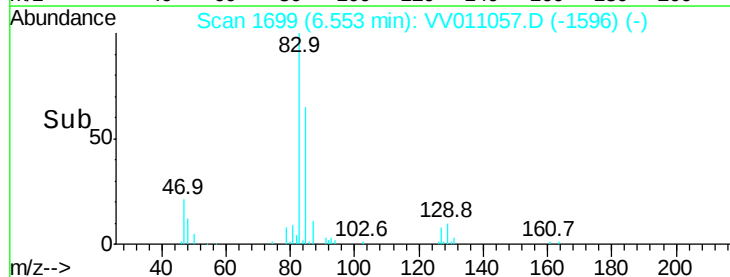
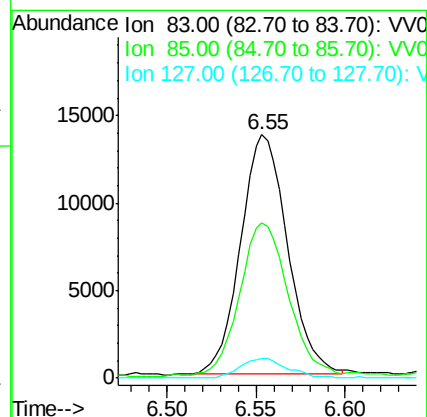
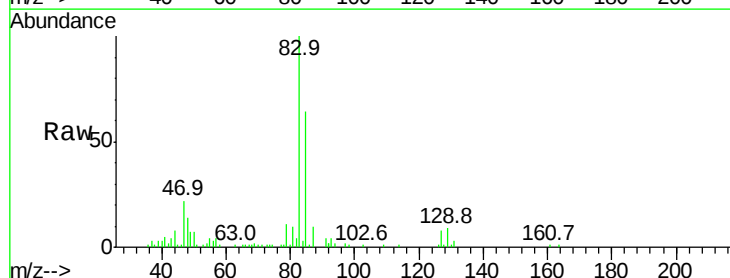
Tgt Ion: 83 Resp: 25196

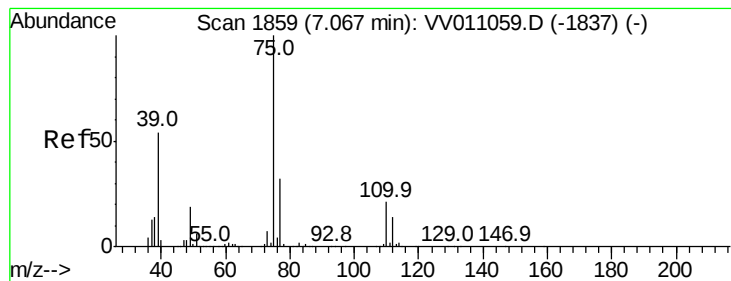
Ion Ratio Lower Upper

83 100

85 63.8 44.4 82.4

127 8.0 6.2 9.4



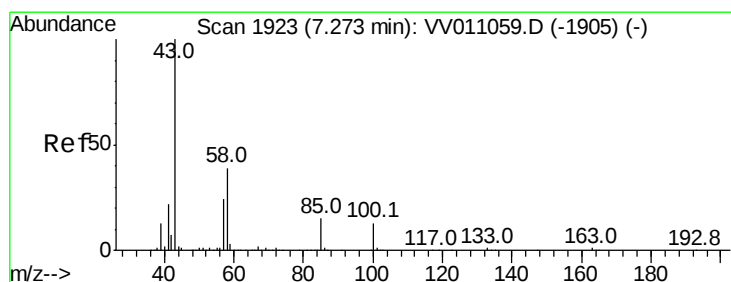
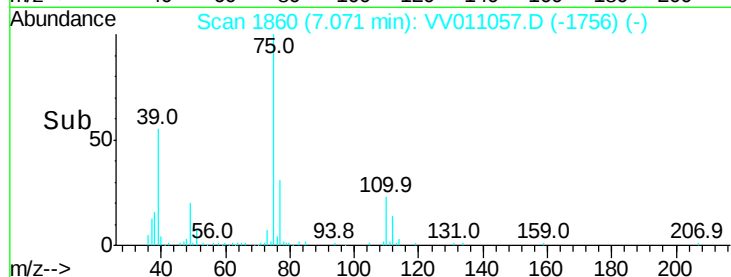
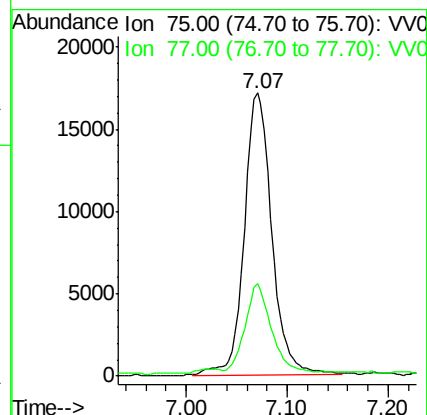
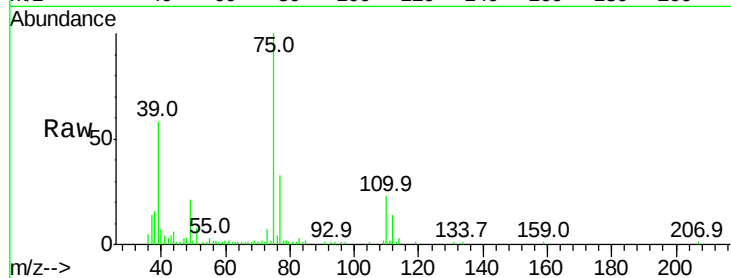


#42

cis-1,3-Dichloropropene
Concen: 2.760 ug/L
RT: 7.07 min Scan# 1860
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

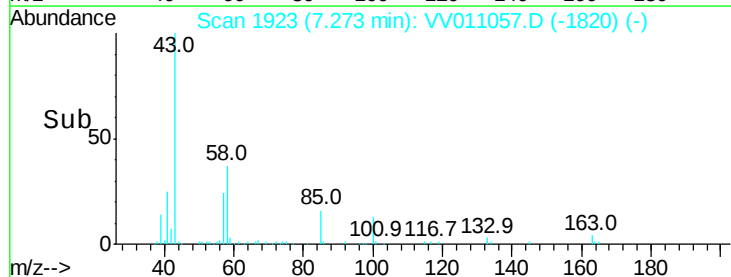
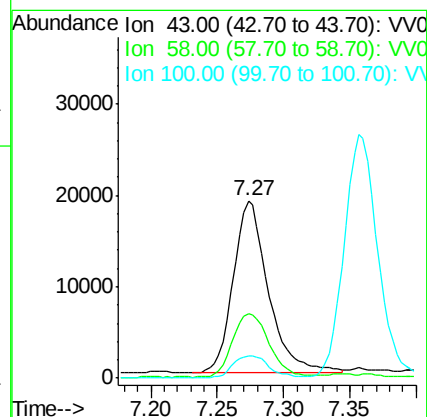
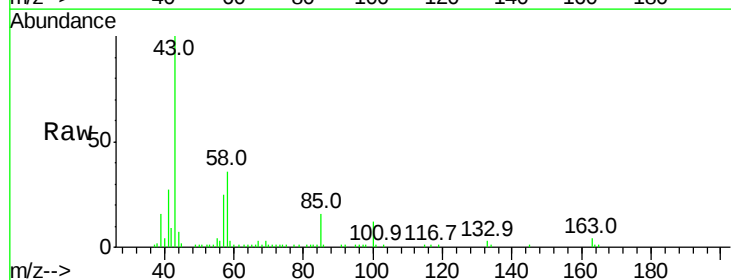
Tgt Ion: 75 Resp: 32614
Ion Ratio Lower Upper
75 100
77 32.5 22.5 41.7

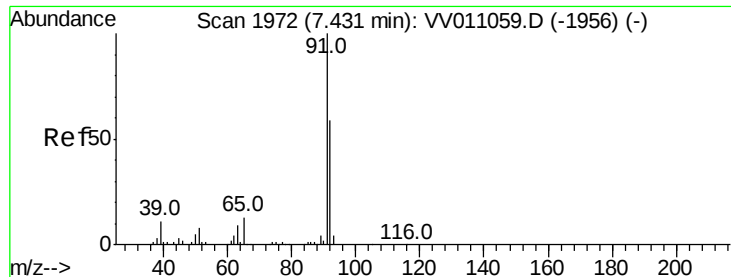


#43

4-Methyl-2-pentanone
Concen: 6.106 ug/L
RT: 7.27 min Scan# 1923
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

Tgt Ion: 43 Resp: 34753
Ion Ratio Lower Upper
43 100
58 38.1 30.3 45.5
100 13.5 10.6 15.8





#44

Toluene

Concen: 2.598 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampled :

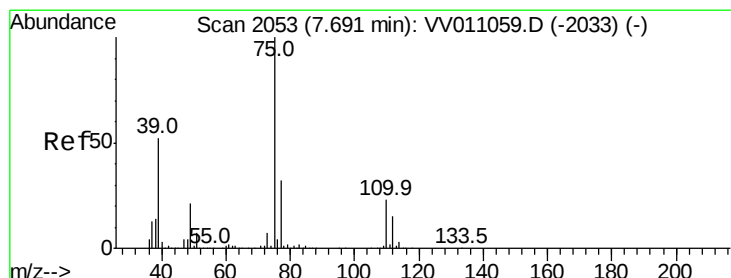
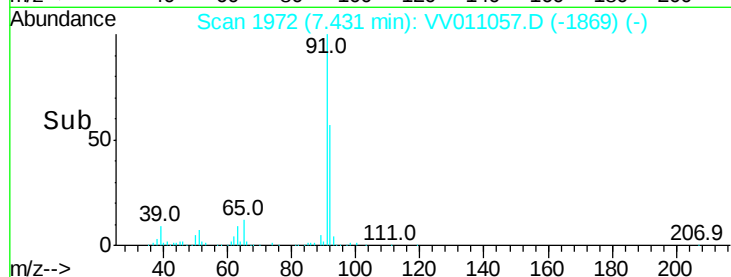
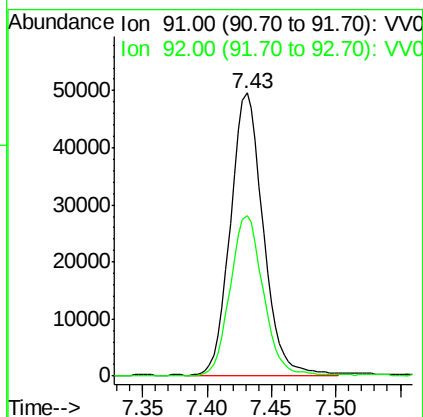
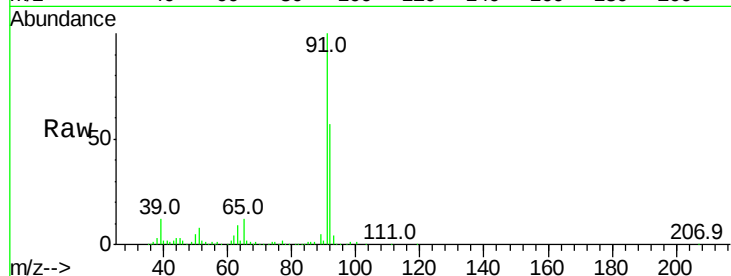
VSTD2.566

Tgt Ion: 91 Resp: 87115

Ion Ratio Lower Upper

91 100

92 56.9 41.0 76.2



#45

trans-1,3-Dichloropropene

Concen: 2.654 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011057.D

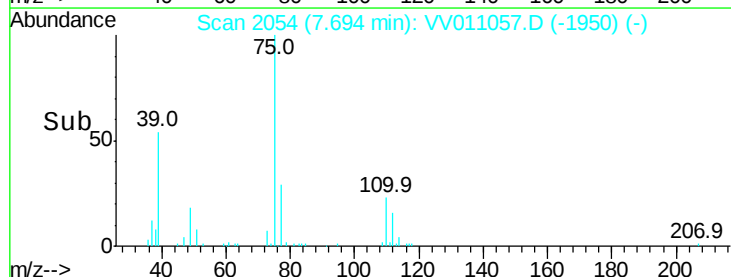
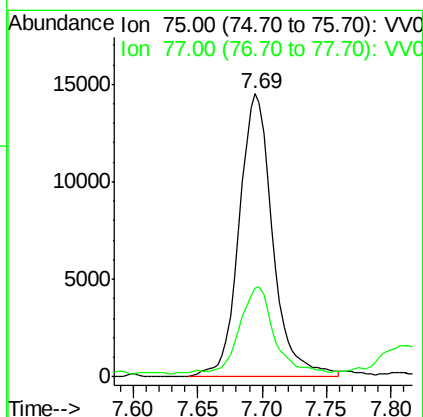
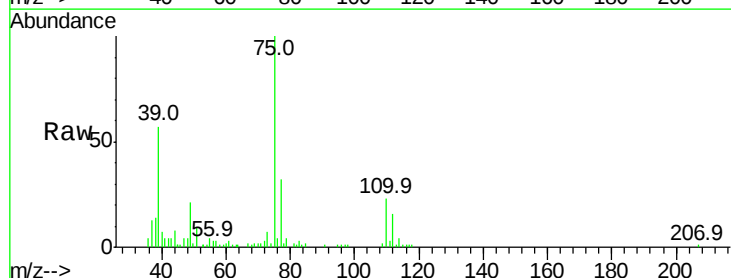
Acq: 28 May 2019 10:31

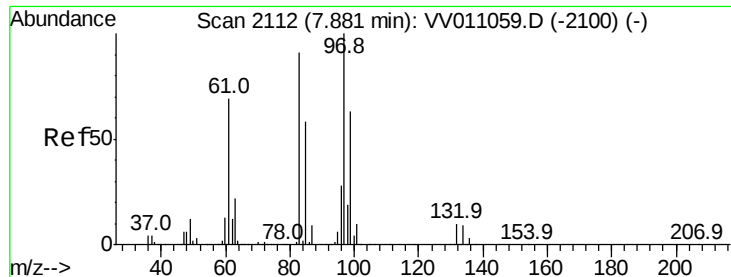
Tgt Ion: 75 Resp: 26420

Ion Ratio Lower Upper

75 100

77 31.6 22.2 41.2

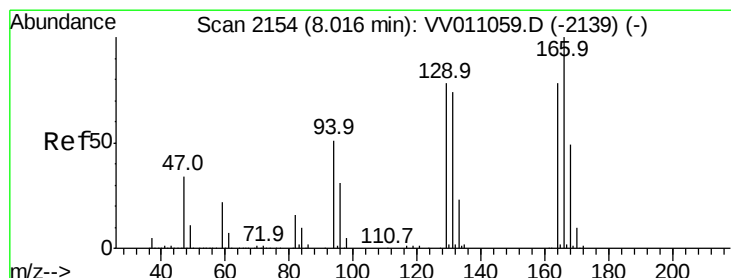
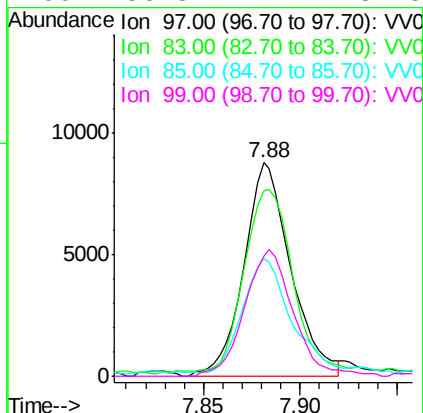
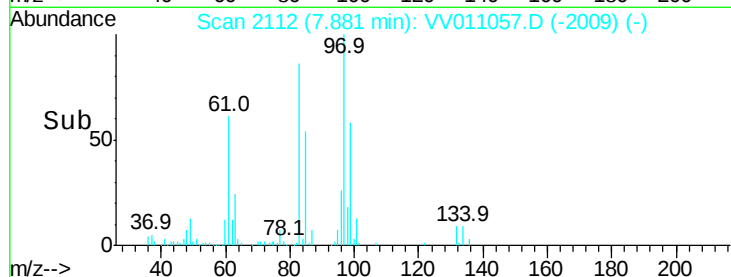
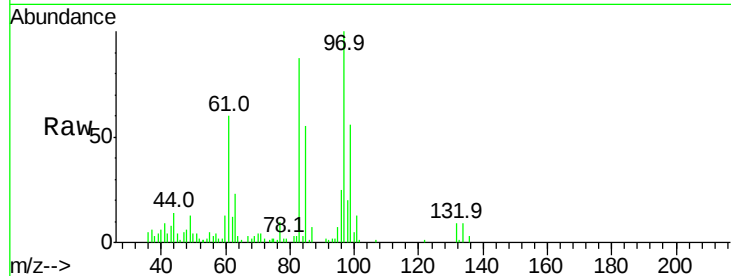




#46
 1,1,2-Trichloroethane
 Concen: 2.194 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

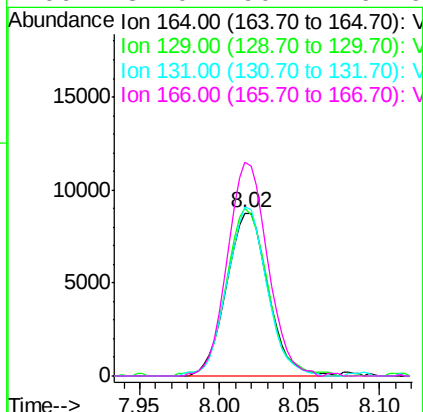
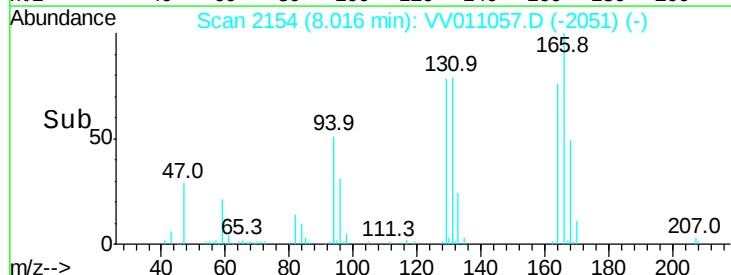
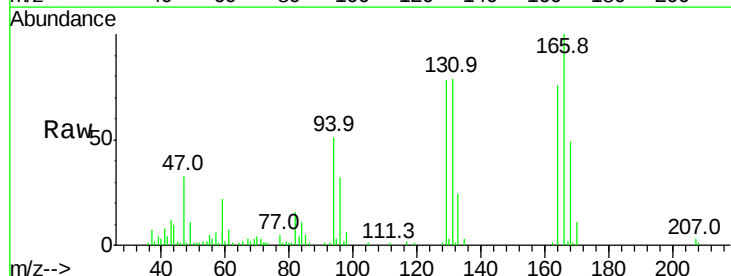
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.566

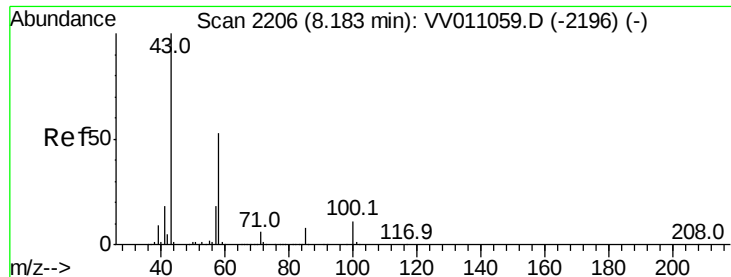
Tgt Ion:	97	Resp:	14845
Ion	Ratio	Lower	Upper
97	100		
83	86.7	63.5	117.9
85	54.9	40.3	74.9
99	56.3	44.4	82.5



#47
 Tetrachloroethene
 Concen: 2.390 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

Tgt Ion:	164	Resp:	15571
Ion	Ratio	Lower	Upper
164	100		
129	102.7	70.7	131.3
131	103.4	66.6	123.8
166	131.0	90.2	167.6



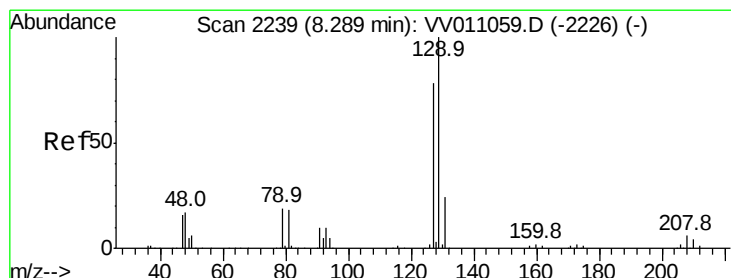
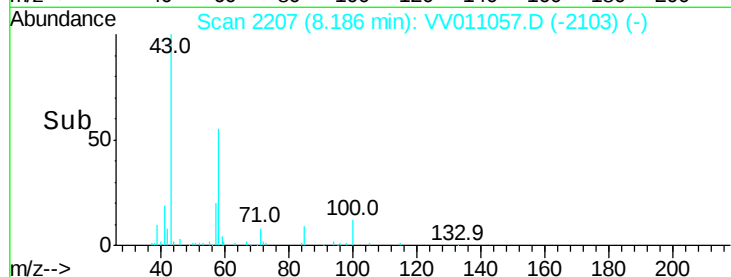
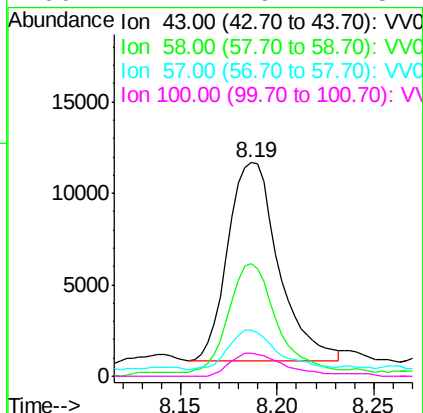
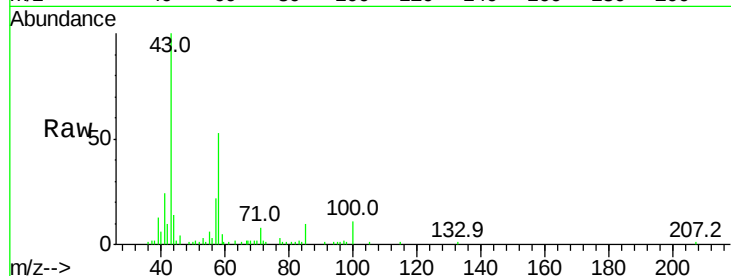


#49
2-Hexanone
Concen: 4.746 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

Tgt Ion: 43 Resp: 19722

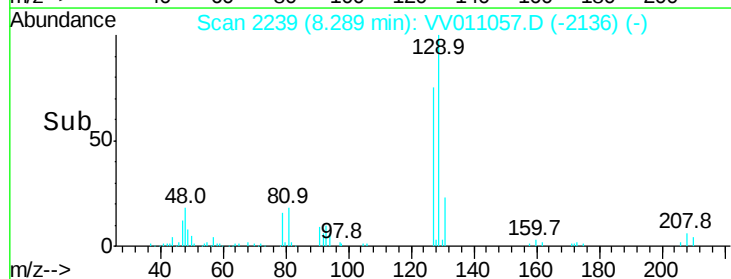
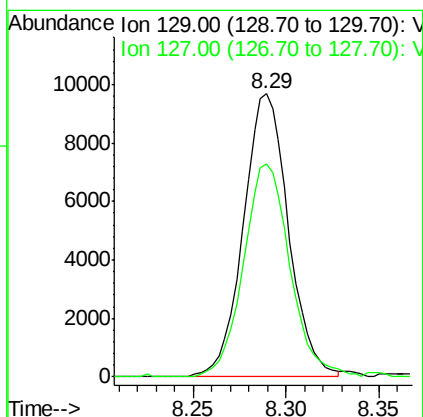
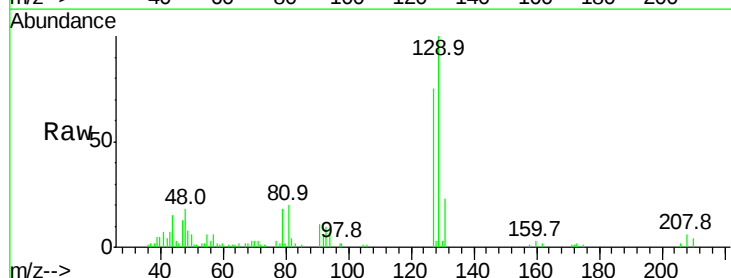
Ion	Ratio	Lower	Upper
43	100		
58	52.1	43.5	65.3
57	18.7	13.7	20.5
100	12.4	9.1	13.7

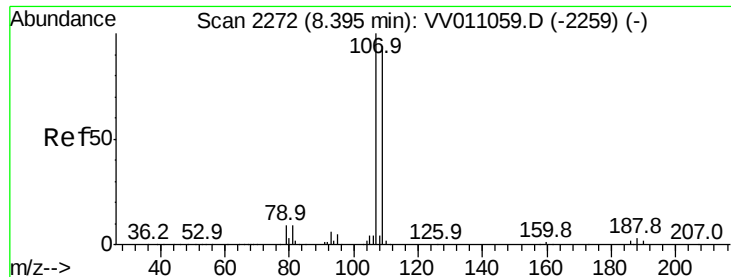


#50
Dibromochloromethane
Concen: 2.062 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

Tgt Ion: 129 Resp: 16423

Ion	Ratio	Lower	Upper
129	100		
127	75.3	54.6	101.4





#51

1,2-Dibromoethane

Concen: 2.055 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

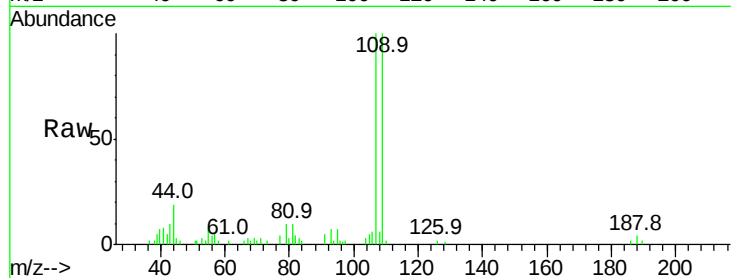
Tgt Ion:107 Resp: 13448

Ion Ratio Lower Upper

107 100

109 100.1 65.7 122.1

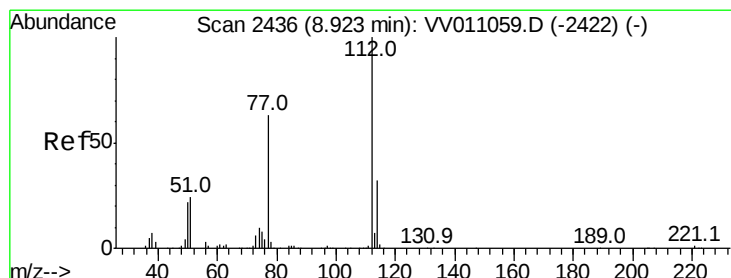
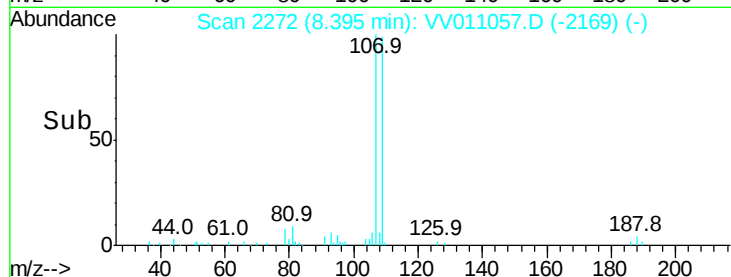
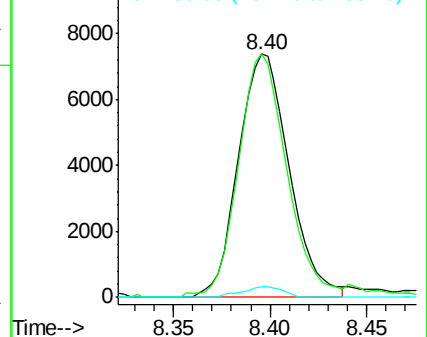
188 4.2 2.6 3.8#



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 2.284 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

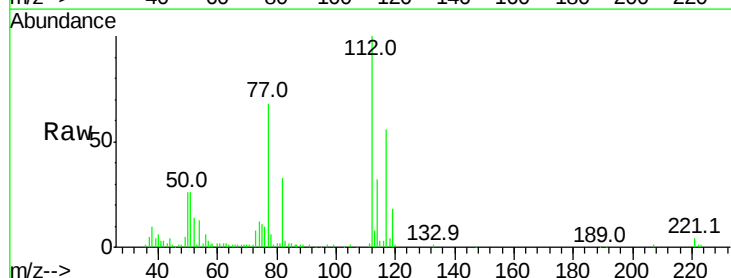
Tgt Ion:112 Resp: 52484

Ion Ratio Lower Upper

112 100

77 68.2 50.8 76.2

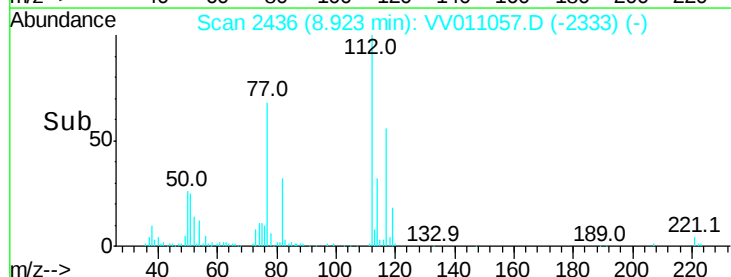
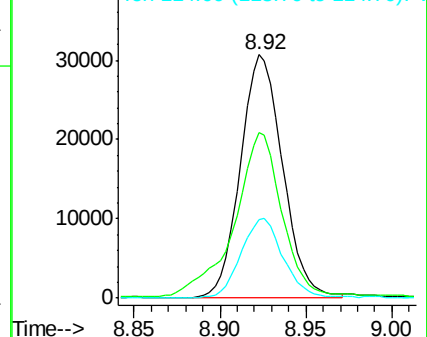
114 32.2 22.7 42.1

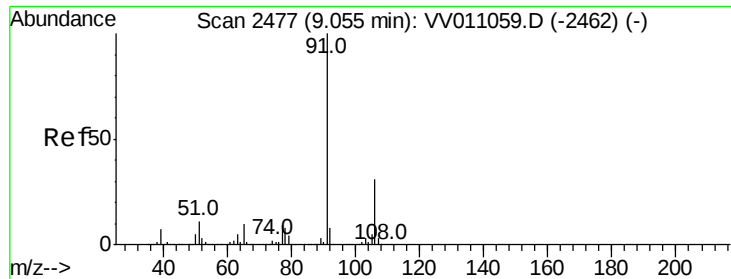


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

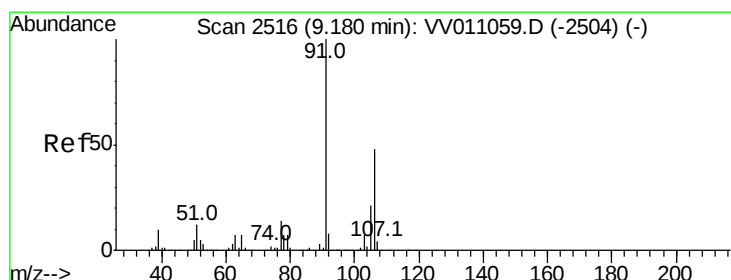
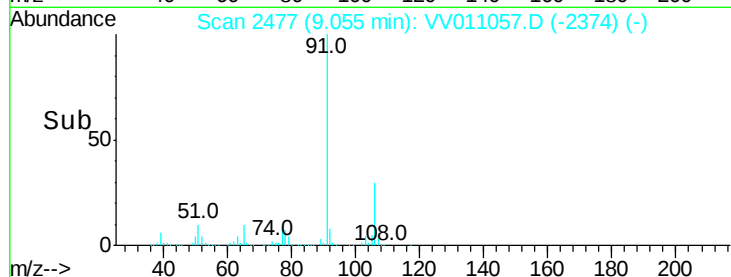
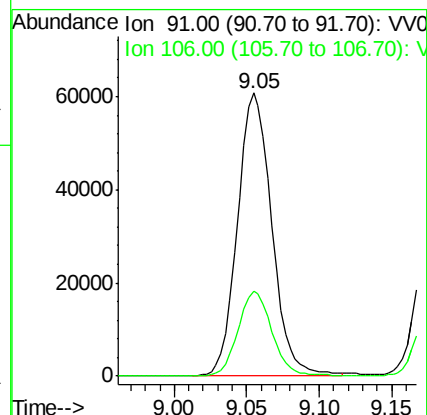
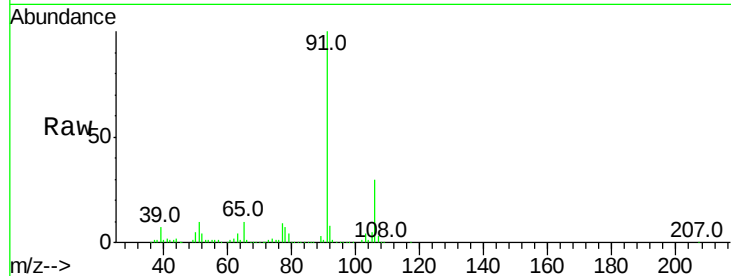




#53
Ethylbenzene
Concen: 2.700 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

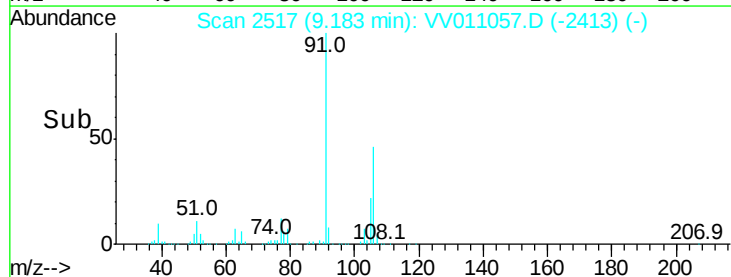
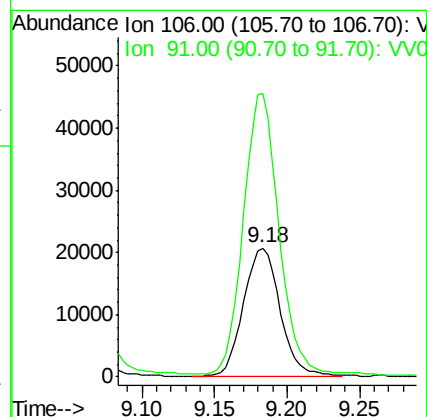
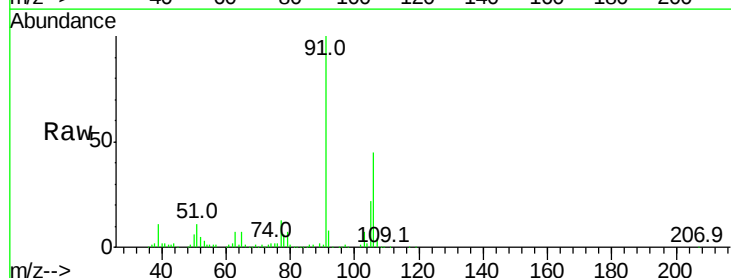
Instrument :
MSVOA_V
ClientSampleId :
VSTD2.566

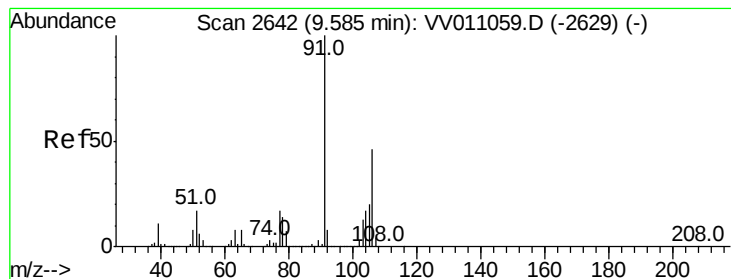
Tgt Ion: 91 Resp: 98632
Ion Ratio Lower Upper
91 100
106 29.9 21.3 39.6



#54
m,p-Xylene
Concen: 2.592 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV011057.D
Acq: 28 May 2019 10:31

Tgt Ion: 106 Resp: 36906
Ion Ratio Lower Upper
106 100
91 220.1 145.7 270.7





#55

o-xylene

Concen: 2.586 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

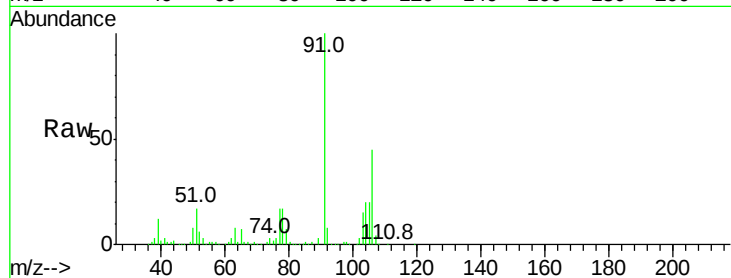
VSTD2.566

Tgt Ion:106 Resp: 35132

Ion Ratio Lower Upper

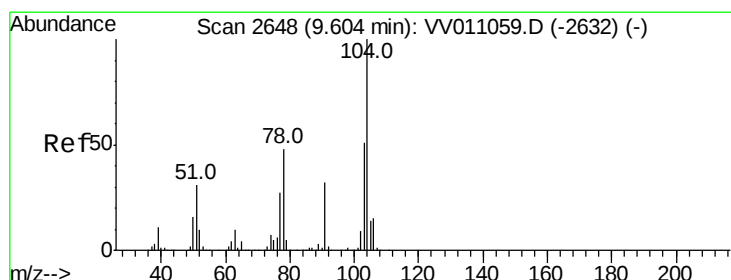
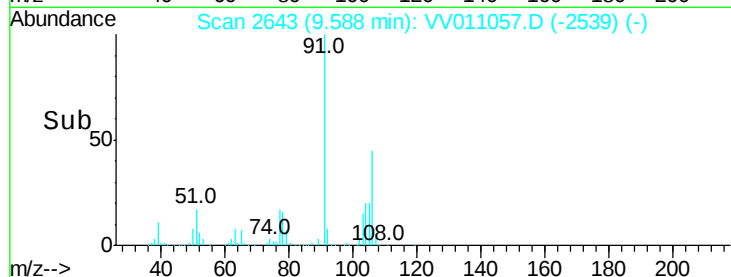
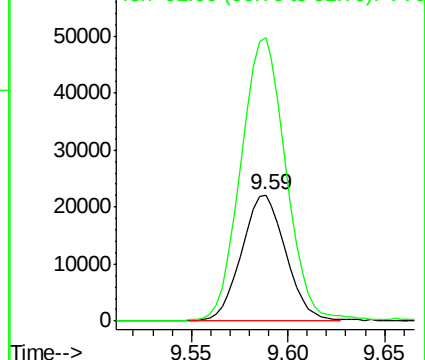
106 100

91 224.5 151.5 281.3



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 2.425 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV011057.D

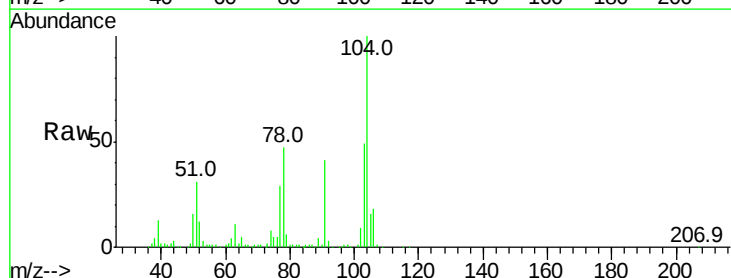
Acq: 28 May 2019 10:31

Tgt Ion:104 Resp: 56782

Ion Ratio Lower Upper

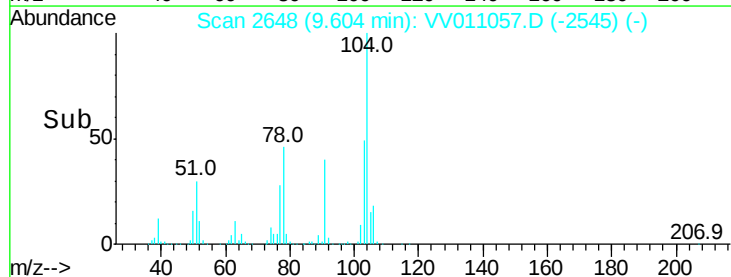
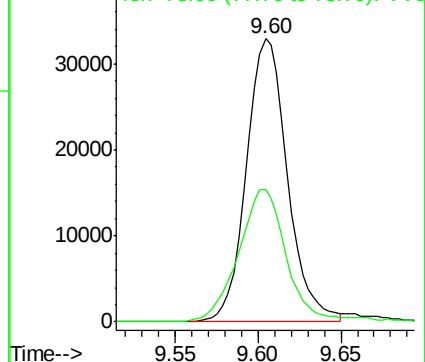
104 100

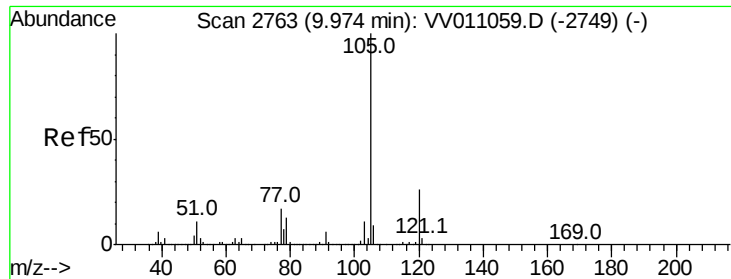
78 46.8 33.7 62.7



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 2.679 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

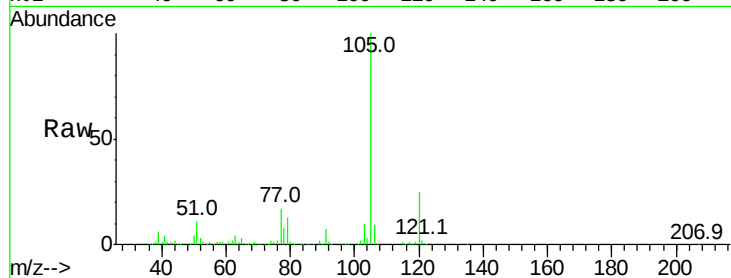
Tgt Ion:105 Resp: 96000

Ion Ratio Lower Upper

105 100

120 26.1 21.0 31.4

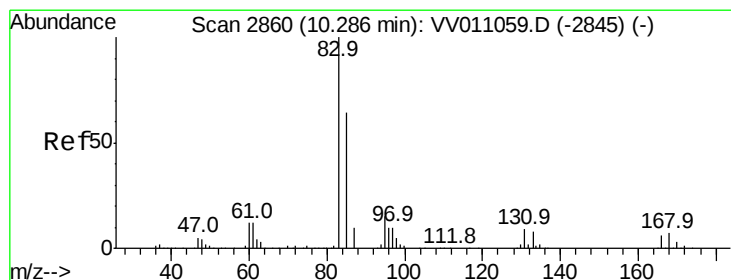
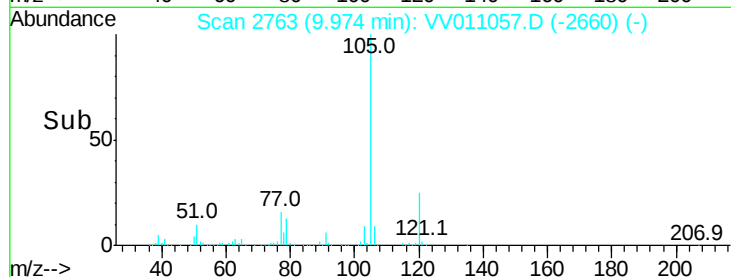
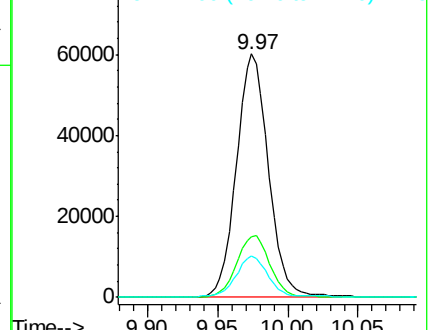
77 16.3 13.3 19.9



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: 2.040 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

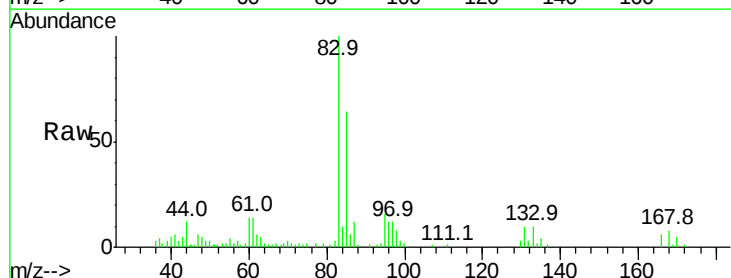
Tgt Ion: 83 Resp: 18171

Ion Ratio Lower Upper

83 100

85 64.2 44.7 82.9

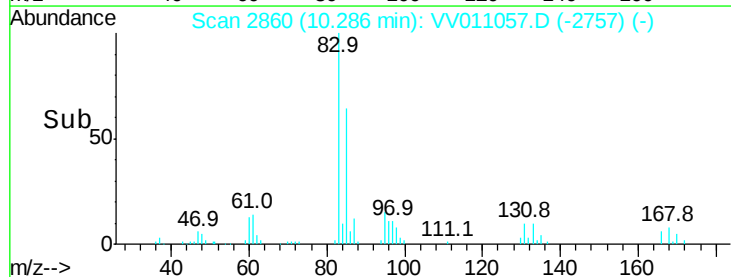
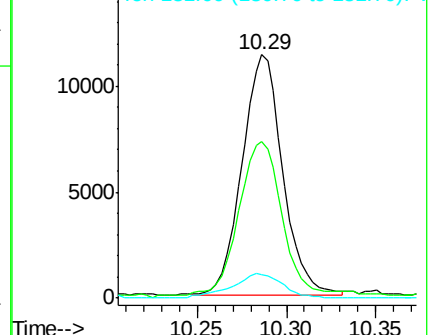
131 9.9 7.1 10.7

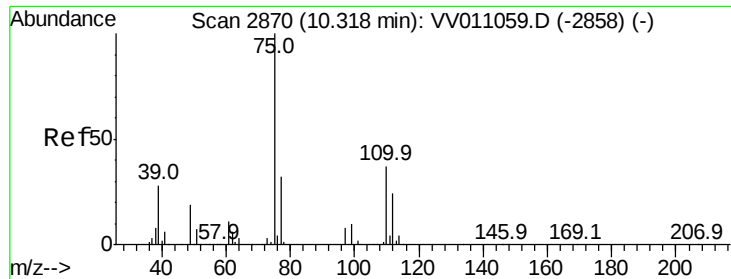


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.127 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

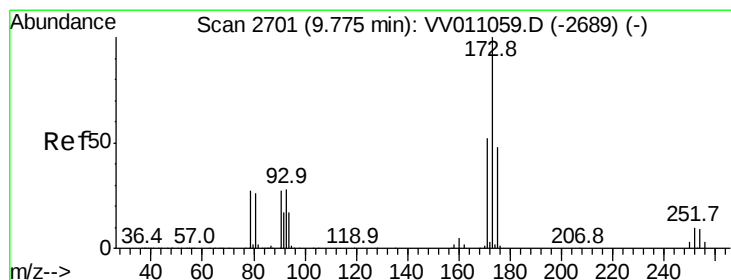
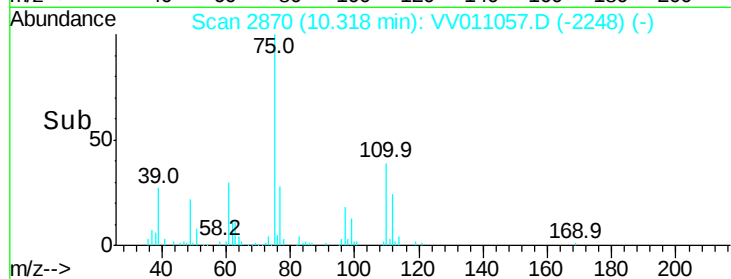
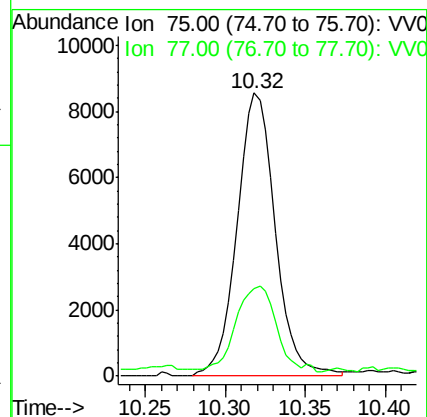
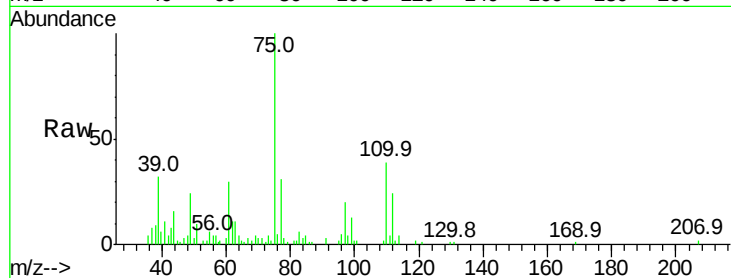
VSTD2.566

Tgt Ion: 75 Resp: 13919

Ion Ratio Lower Upper

75 100

77 30.7 25.4 38.0



#62

Bromoform

Concen: 2.236 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

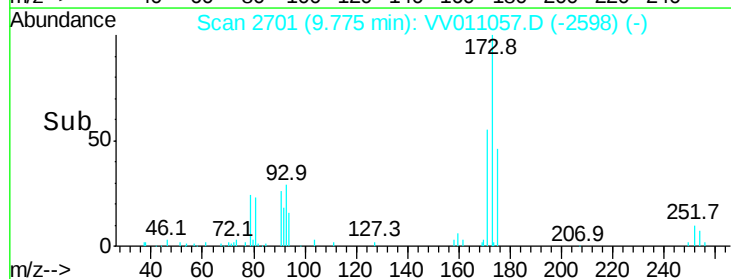
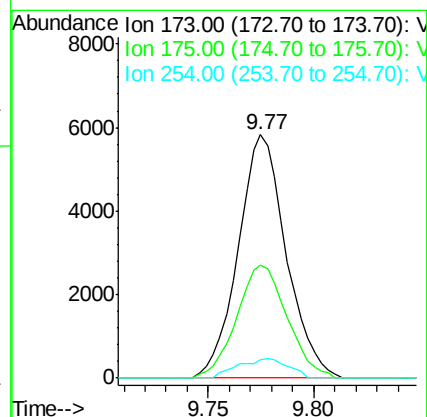
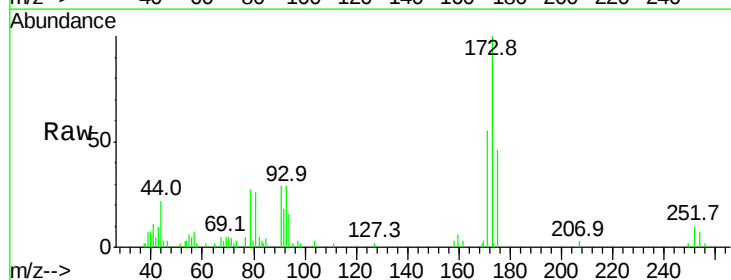
Tgt Ion: 173 Resp: 9184

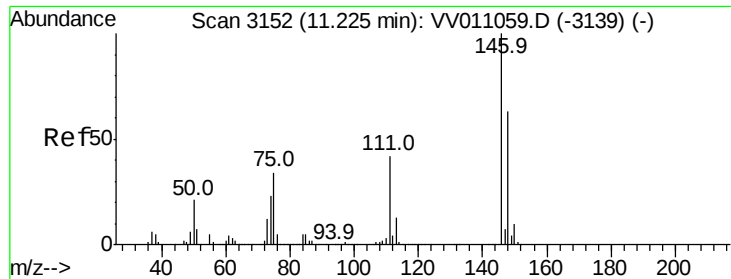
Ion Ratio Lower Upper

173 100

175 48.8 39.0 58.4

254 8.4 7.0 10.4

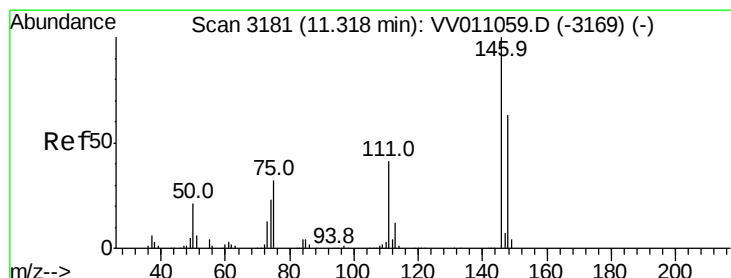
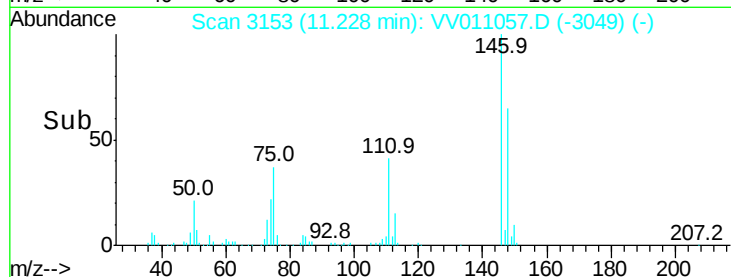
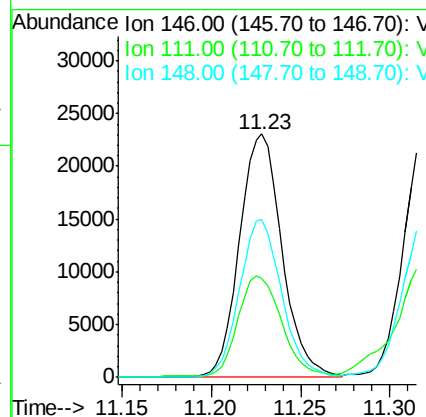
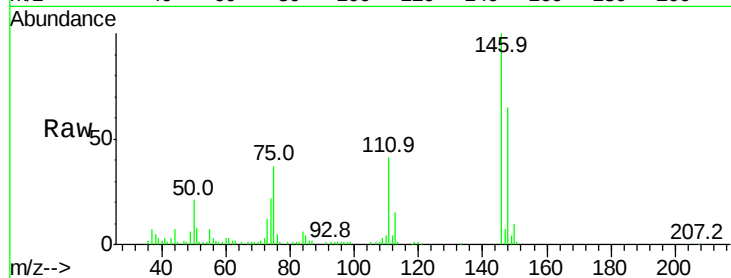




#63
 1,3-Dichlorobenzene
 Concen: 2.429 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

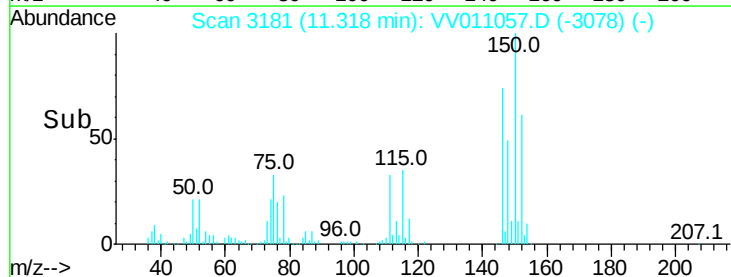
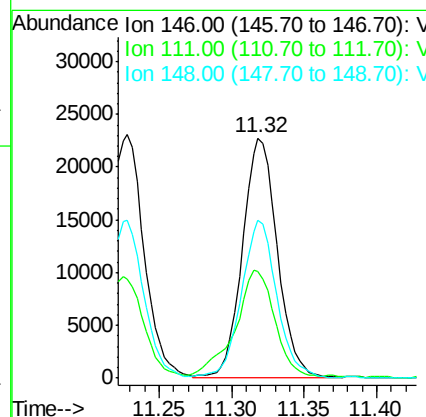
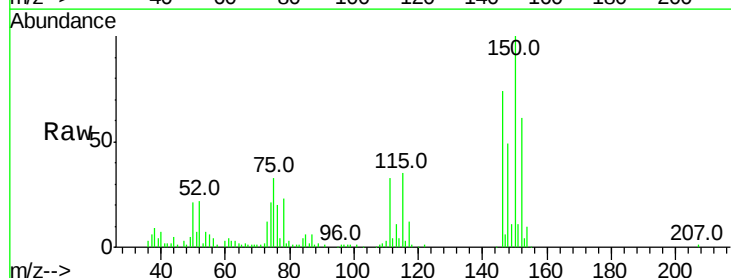
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.566

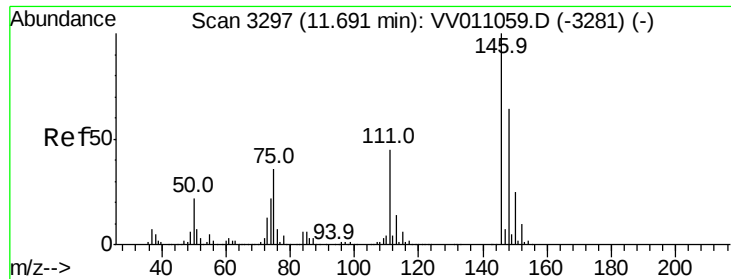
Tgt Ion:146 Resp: 38325
 Ion Ratio Lower Upper
 146 100
 111 40.8 29.6 55.0
 148 64.9 44.1 81.9



#64
 1,4-Dichlorobenzene
 Concen: 2.346 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

Tgt Ion:146 Resp: 38120
 Ion Ratio Lower Upper
 146 100
 111 44.5 28.8 53.4
 148 65.9 44.4 82.5

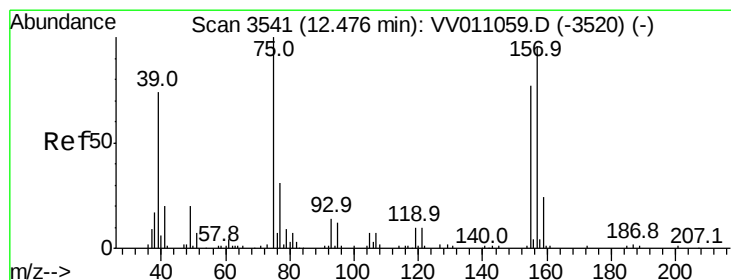
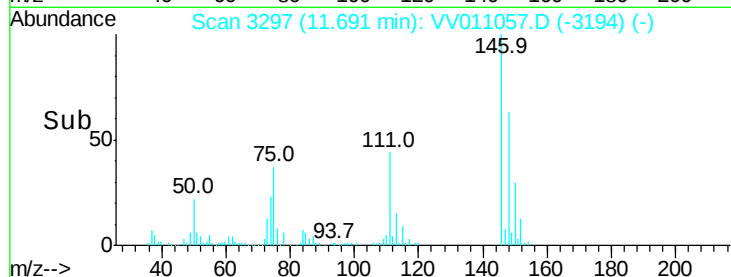
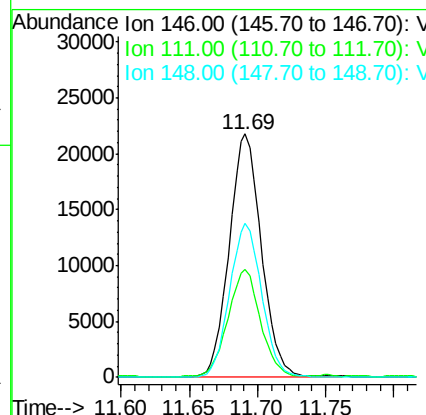
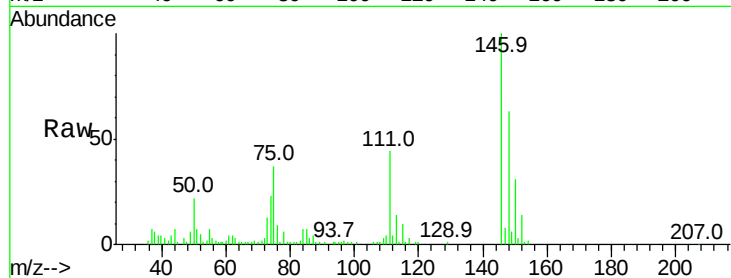




#65
 1,2-Dichlorobenzene
 Concen: 2.333 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

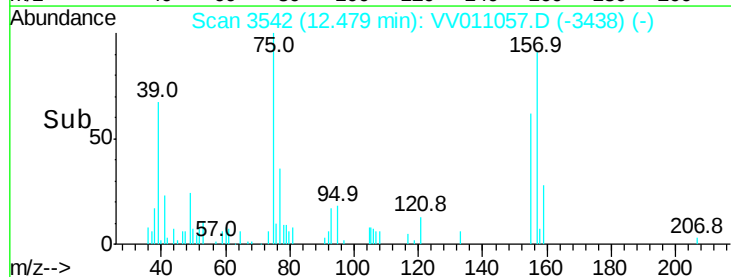
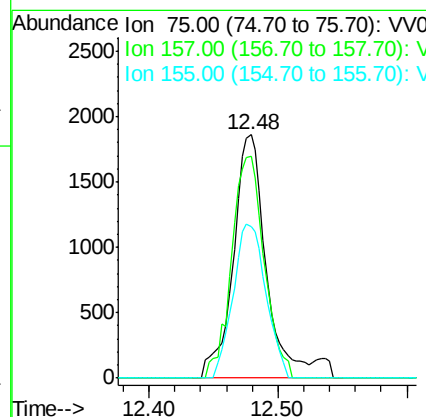
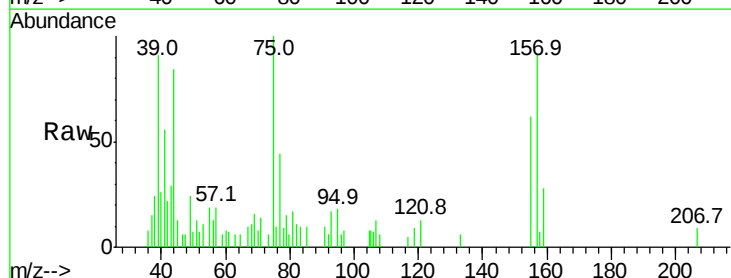
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.566

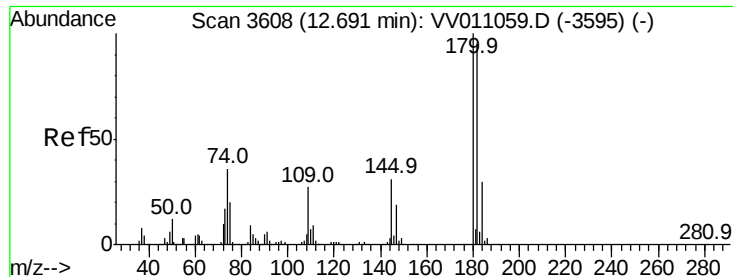
Tgt Ion: 146 Resp: 35701
 Ion Ratio Lower Upper
 146 100
 111 44.5 35.9 53.9
 148 63.1 51.4 77.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 2.780 ug/L
 RT: 12.48 min Scan# 3542
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

Tgt Ion: 75 Resp: 3379
 Ion Ratio Lower Upper
 75 100
 157 91.0 76.7 115.1
 155 62.5 61.8 92.8

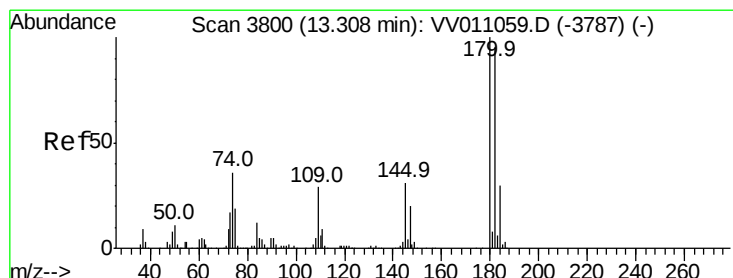
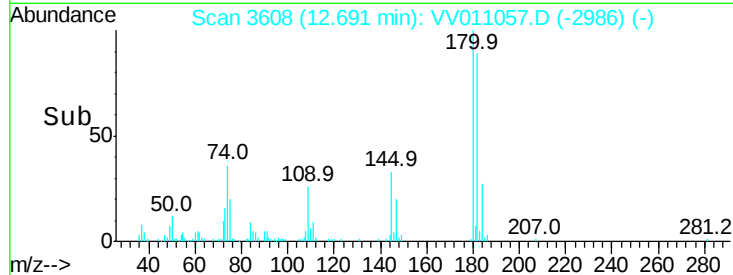
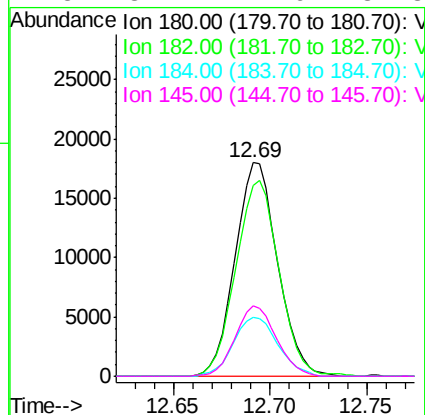
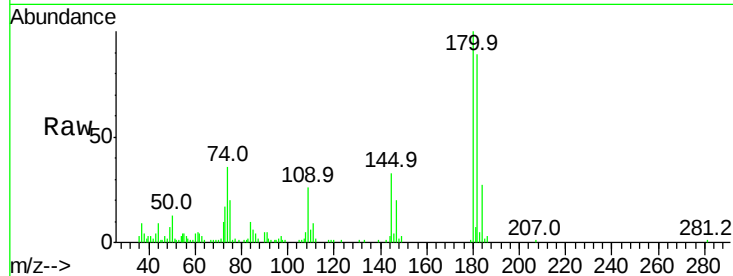




#67
 1,3,5-Trichlorobenzene
 Concen: 2.382 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

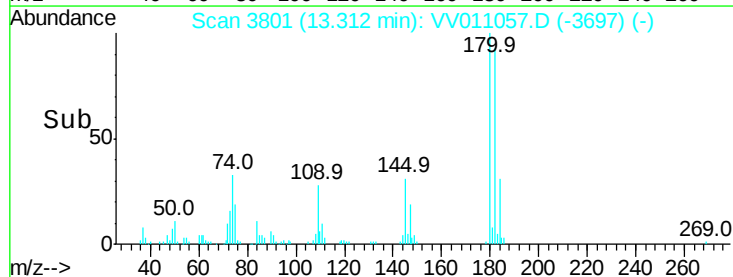
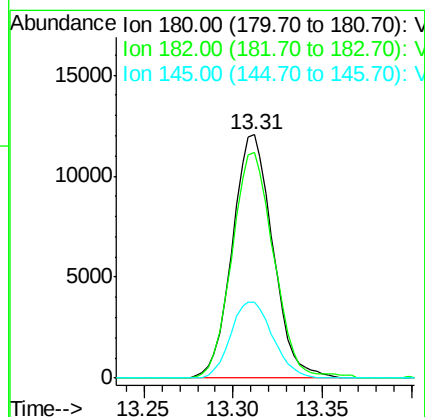
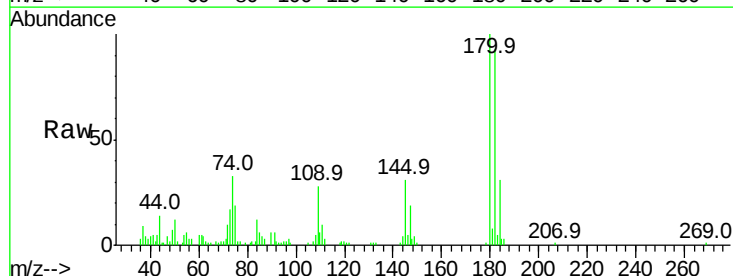
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD2.566

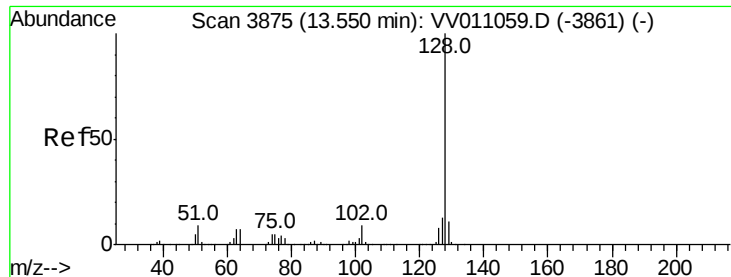
Tgt Ion:180 Resp: 27576
 Ion Ratio Lower Upper
 180 100
 182 92.5 76.6 114.8
 184 28.8 24.7 37.1
 145 32.1 24.9 37.3



#68
 1,2,4-trichlorobenzene
 Concen: 2.082 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV011057.D
 Acq: 28 May 2019 10:31

Tgt Ion:180 Resp: 19052
 Ion Ratio Lower Upper
 180 100
 182 94.8 76.8 115.2
 145 32.3 25.4 38.0





#69

Naphthalene

Concen: 1.775 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

Instrument :

MSVOA_V

ClientSampleId :

VSTD2.566

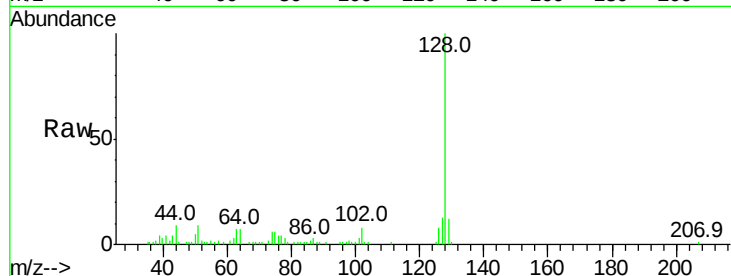
Tgt Ion:128 Resp: 32554

Ion Ratio Lower Upper

128 100

129 12.1 8.6 12.8

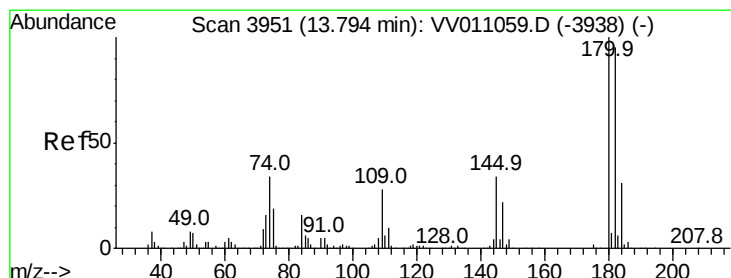
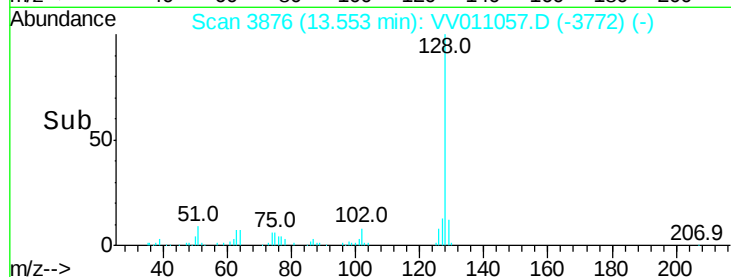
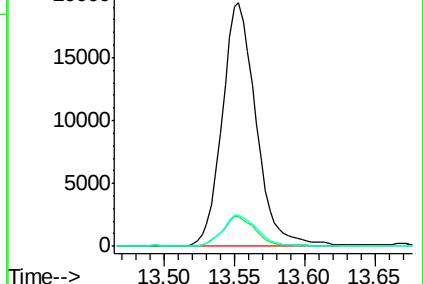
127 13.0 10.2 15.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 1.923 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV011057.D

Acq: 28 May 2019 10:31

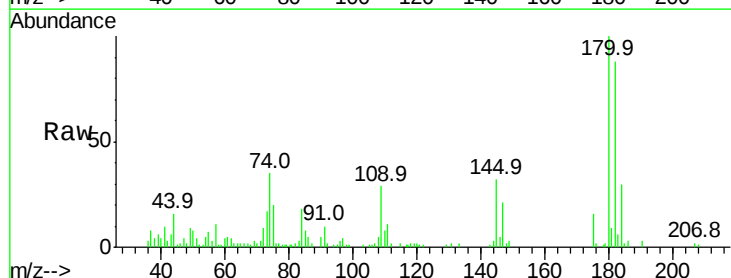
Tgt Ion:180 Resp: 17176

Ion Ratio Lower Upper

180 100

182 92.0 75.7 113.5

145 34.2 27.0 40.6



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

