

Data File : VV011133.D
Acq On : 30 May 2019 12:58
Operator : SY/MD
Sample : VSTD00581
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Quant Time: May 30 13:50:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM053019S.M
Quant Title : VOC Analysis
QLast Update : Thu May 30 13:47:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	327592	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	320055	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	151709	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25135	5.60	ug/L	0.00
7) Chloroethane-d5	1.56	69	19268	6.01	ug/L	0.00
10) 1,1-Dichloroethene-d2	2.12	63	49688	5.95	ug/L	0.00
20) 2-Butanone-d5	3.95	46	16020	10.35	ug/L	0.00
24) Chloroform-d	4.40	84	41047	5.17	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.08	65	26707	5.26	ug/L	0.00
29) Benzene-d6	5.09	84	89457	4.77	ug/L	0.00
33) 1,2-Dichloropropane-d6	6.12	67	27544	4.62	ug/L	0.00
37) Toluene-d8	7.36	98	83222	4.82	ug/L	0.00
38) trans-1,3-Dichloropropene-	7.66	79	11651	4.19	ug/L	0.00
39) 2-Hexanone-d5	8.14	63	11452	8.82	ug/L	0.00
48) 1,1,2,2-Tetrachloroethane-	10.26	84	23464	4.58	ug/L	0.00
61) 1,2-Dichlorobenzene-d4	11.67	152	28190	4.70	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	25770	4.824 ug/L	95
3) Chloromethane	1.25	50	25775	4.892 ug/L	98
5) Vinyl chloride	1.32	62	25041	5.149 ug/L	93
6) Bromomethane	1.51	94	14222	6.786 ug/L	100
8) Chloroethane	1.58	64	15459	5.860 ug/L	99
9) Trichlorofluoromethane	1.76	101	37643	5.779 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	21135	6.047 ug/L	97
12) 1,1-Dichloroethene	2.13	96	20054	6.097 ug/L	87
13) Acetone	2.19	43	16612	9.473 ug/L	99
14) Carbon disulfide	2.31	76	60923	5.537 ug/L	97
15) Methyl Acetate	2.46	43	13894	5.489 ug/L	93
16) Methylene chloride	2.53	84	26211	5.473 ug/L	99
17) Methyl tert-butyl Ether	2.81	73	64703	5.252 ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	23835	5.298 ug/L	97
19) 1,1-Dichloroethane	3.23	63	45016	5.147 ug/L	95
21) 2-Butanone	4.03	43	16989	7.867 ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	25797	5.091 ug/L	98
23) Bromochloromethane	4.30	128	11530	5.371 ug/L	98
25) Chloroform	4.42	83	48262	5.225 ug/L	99
27) 1,2-Dichloroethane	5.18	62	33468	5.562 ug/L	97
30) Cyclohexane	4.72	56	44331	4.782 ug/L	99
31) 1,1,1-Trichloroethane	4.65	97	35439	4.863 ug/L	97
32) Carbon tetrachloride	4.87	117	31023	4.971 ug/L	98
34) Benzene	5.14	78	96882	5.006 ug/L	100
35) Trichloroethene	5.96	95	25649	5.074 ug/L	98
36) Methylcyclohexane	6.17	83	43644	5.004 ug/L	99
40) 1,2-Dichloropropane	6.22	63	25911	5.024 ug/L	# 94
41) Bromodichloromethane	6.55	83	31522	4.821 ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	37276	4.523 ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	43496	9.616 ug/L	99

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Quant Title : VOC Analysis
QLast Update : Thu May 30 13:47:19 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) Toluene	7.43	91	106134	5.044	ug/L	97
45) trans-1,3-Dichloropropene	7.69	75	31034	4.413	ug/L	99
46) 1,1,2-Trichloroethane	7.88	97	19067	4.988	ug/L	97
47) Tetrachloroethene	8.02	164	19321	5.300	ug/L	96
49) 2-Hexanone	8.19	43	28065	8.413	ug/L	97
50) Dibromochloromethane	8.29	129	20122	4.543	ug/L	96
51) 1,2-Dibromoethane	8.40	107	17801	4.866	ug/L	97
52) Chlorobenzene	8.92	112	66953	5.134	ug/L	99
53) Ethylbenzene	9.05	91	120580	5.026	ug/L	98
54) m,p-Xylene	9.18	106	44257	4.953	ug/L	97
55) o-xylene	9.59	106	43718	5.035	ug/L	99
56) Styrene	9.60	104	70326	4.777	ug/L	99
57) Isopropylbenzene	9.97	105	117814	5.084	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.29	83	25659	5.095	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	18234	4.738	ug/L	93
62) Bromoform	9.77	173	10240	4.012	ug/L	94
63) 1,3-Dichlorobenzene	11.23	146	50335	5.043	ug/L	98
64) 1,4-Dichlorobenzene	11.32	146	50068	5.041	ug/L	96
65) 1,2-Dichlorobenzene	11.69	146	47142	5.055	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	4188	4.399	ug/L	97
67) 1,3,5-Trichlorobenzene	12.69	180	37698	5.136	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	28412	4.865	ug/L	100
69) Naphthalene	13.55	128	48980	4.066	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	26135	4.891	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 :
VSTD00568

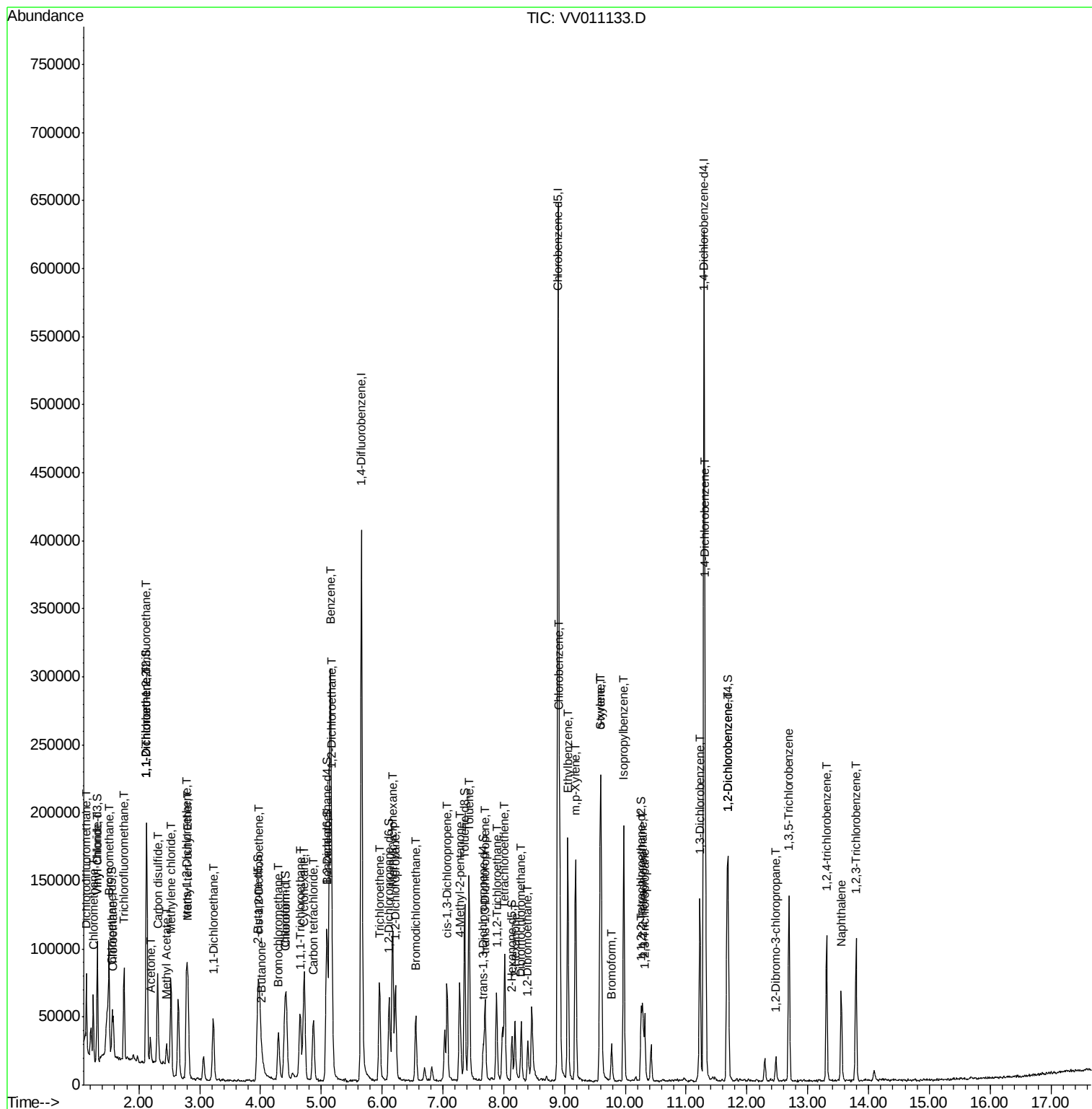
Quant Time: May 30 13:50:51 2019

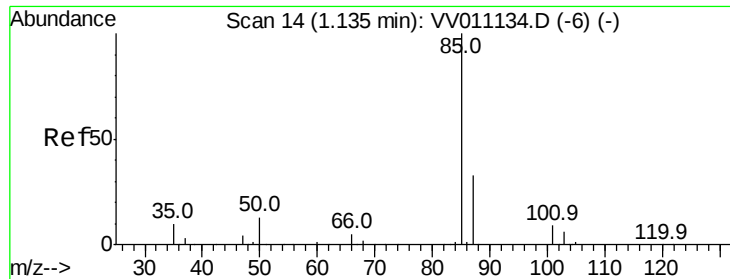
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM053019S.M

Quant Title : VOC Analysis

QLast Update : Thu May 30 13:47:19 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 4.824 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

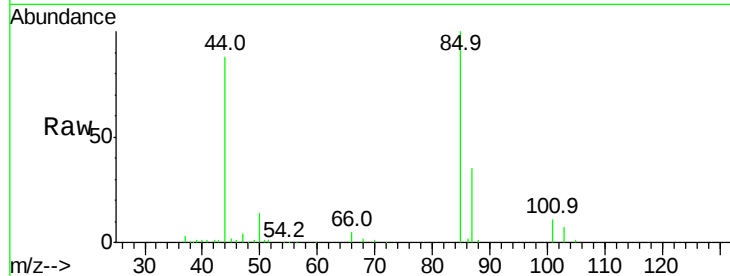
VSTD00568

Tgt Ion: 85 Resp: 25770

Ion Ratio Lower Upper

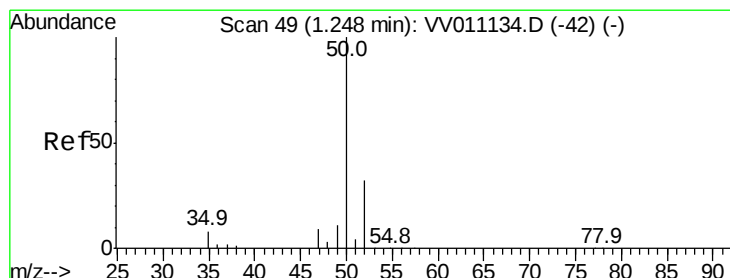
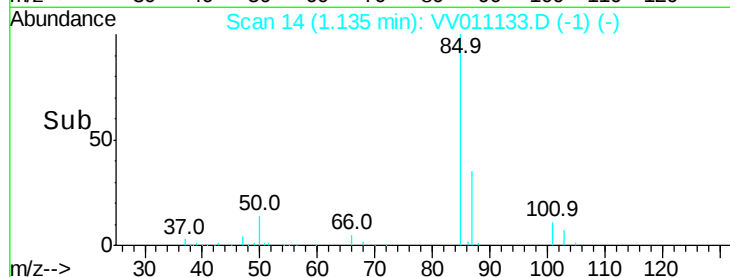
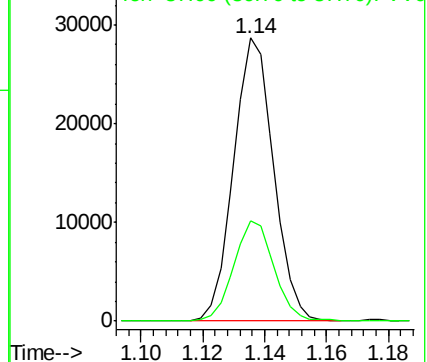
85 100

87 35.5 22.8 42.4



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.892 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV011133.D

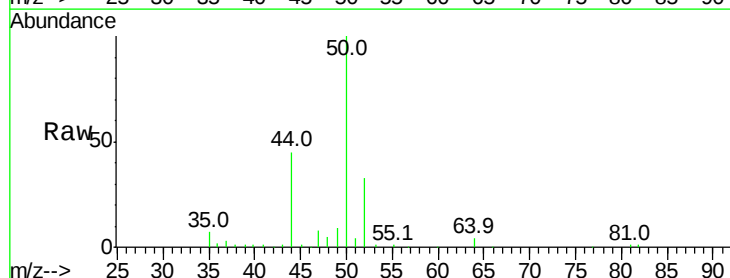
Acq: 30 May 2019 12:58

Tgt Ion: 50 Resp: 25775

Ion Ratio Lower Upper

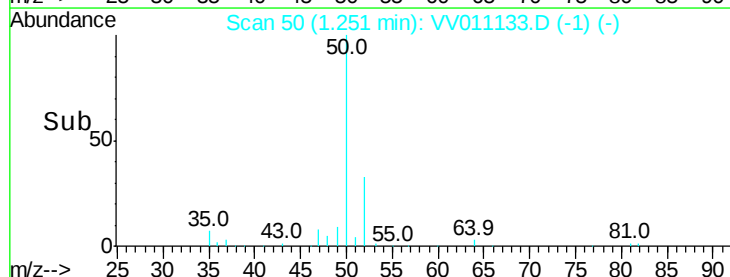
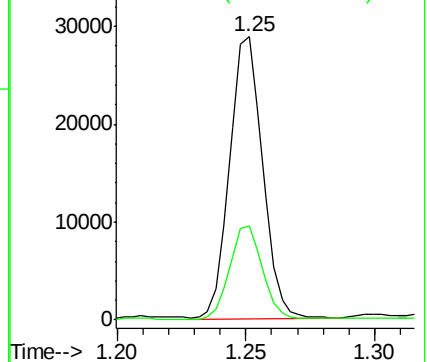
50 100

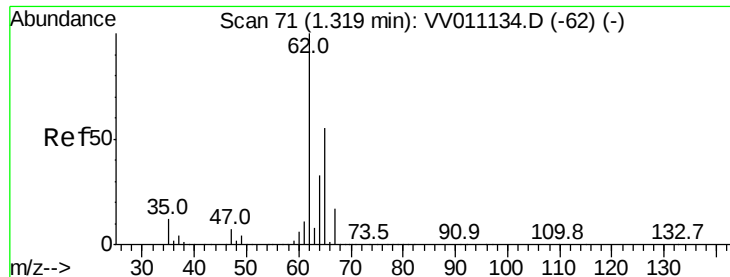
52 33.3 22.5 41.9



Abundance Ion 50.00 (49.70 to 50.70): VV0

Ion 52.00 (51.70 to 52.70): VV0





#5

Vinyl chloride

Concen: 5.149 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

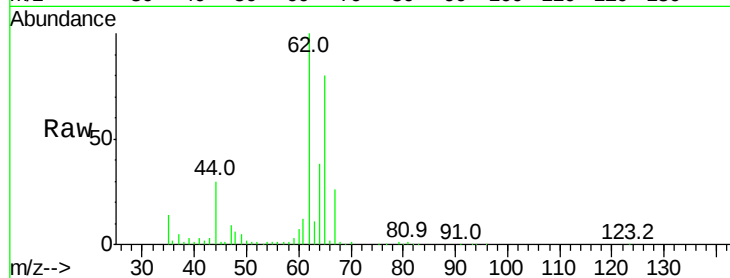
VSTD00568

Tgt Ion: 62 Resp: 25041

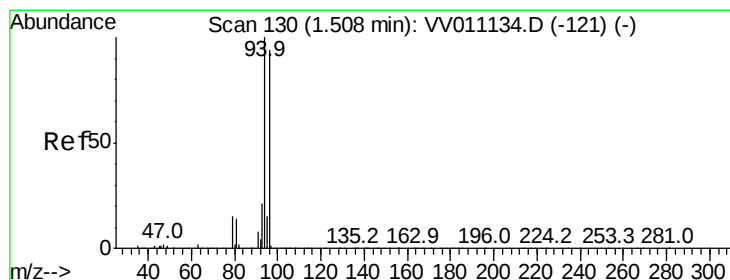
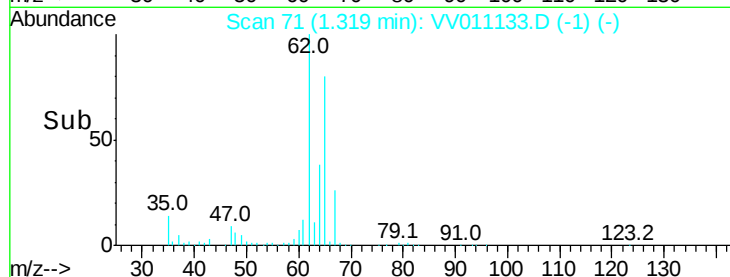
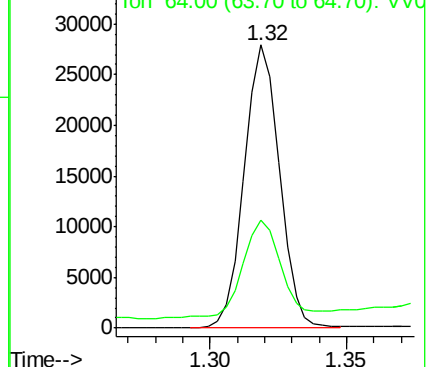
Ion Ratio Lower Upper

62 100

64 38.1 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VV0



#6

Bromomethane

Concen: 6.786 ug/L

RT: 1.51 min Scan# 130

Delta R.T. -0.00 min

Lab File: VV011133.D

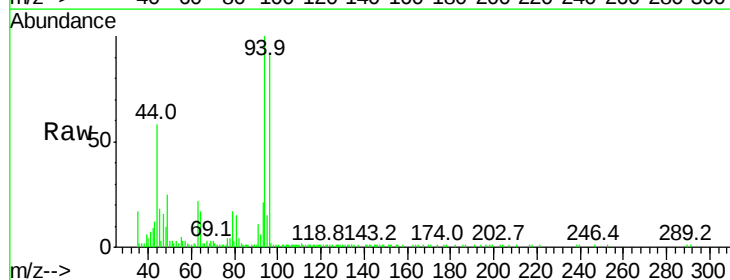
Acq: 30 May 2019 12:58

Tgt Ion: 94 Resp: 14222

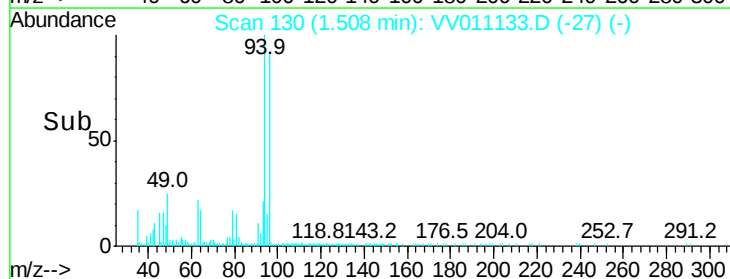
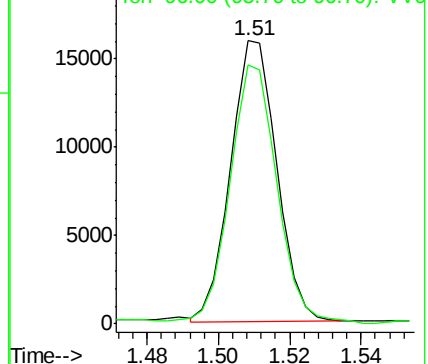
Ion Ratio Lower Upper

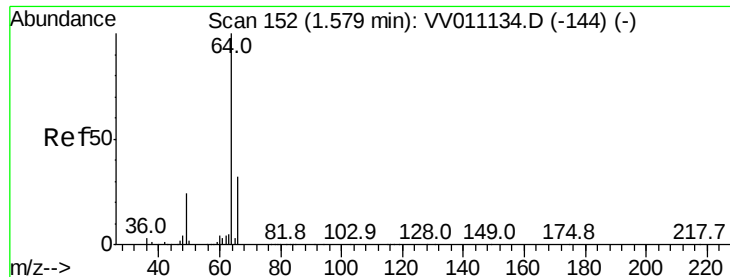
94 100

96 94.9 9.4 179.5



Abundance Ion 94.00 (93.70 to 94.70): VV0





#8

Chloroethane

Concen: 5.860 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

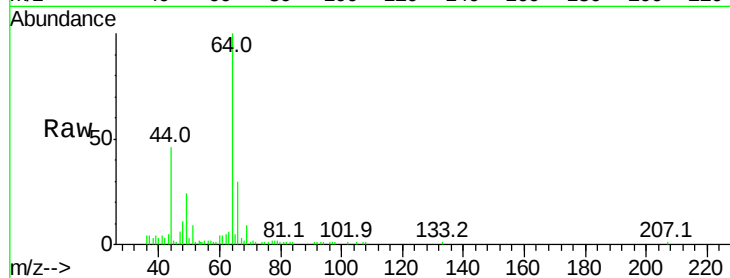
VSTD00568

Tgt Ion: 64 Resp: 15459

Ion Ratio Lower Upper

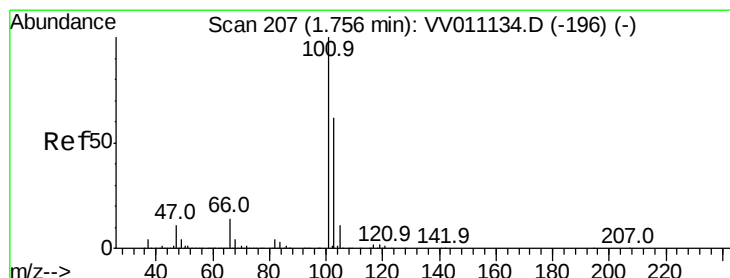
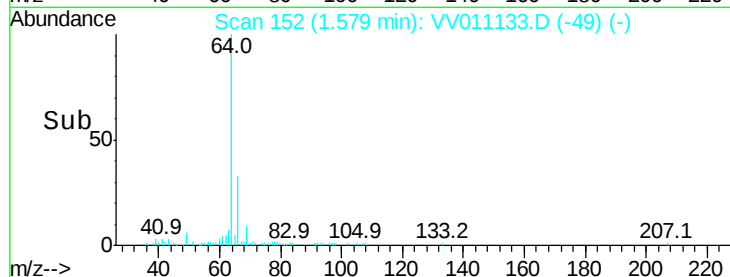
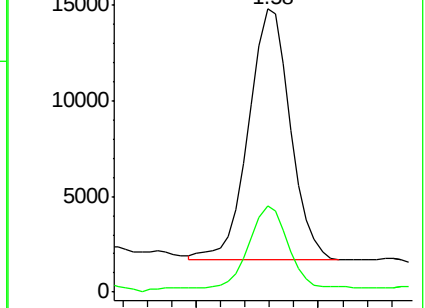
64 100

66 30.4 21.7 40.3



Abundance Ion 64.00 (63.70 to 64.70): VV011133.D (-144) (-)

Ion 66.00 (65.70 to 66.70): VV011133.D (-144) (-)



#9

Trichlorofluoromethane

Concen: 5.779 ug/L

RT: 1.76 min Scan# 207

Delta R.T. -0.00 min

Lab File: VV011133.D

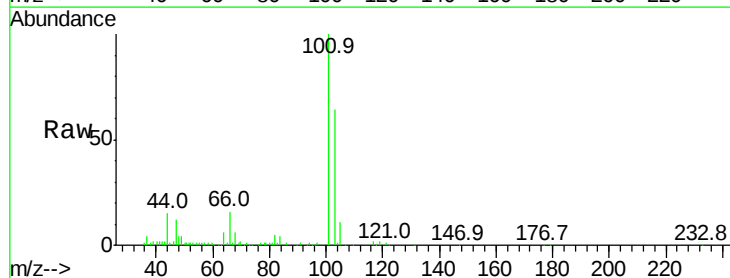
Acq: 30 May 2019 12:58

Tgt Ion: 101 Resp: 37643

Ion Ratio Lower Upper

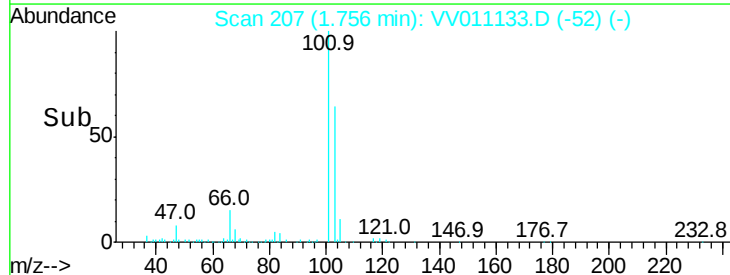
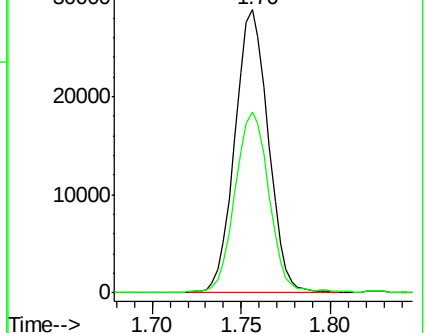
101 100

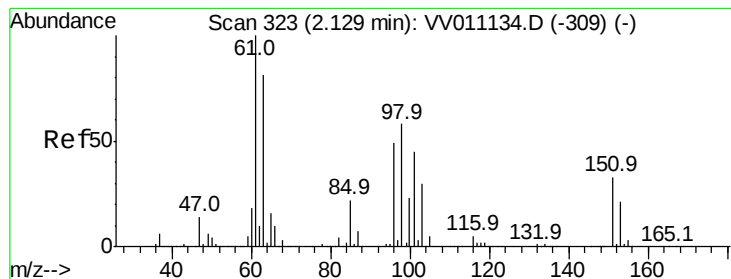
103 63.8 44.4 82.4



Abundance Ion 101.00 (100.70 to 101.70): VV011133.D (-196) (-)

Ion 103.00 (102.70 to 103.70): VV011133.D (-196) (-)





#11

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

Concen: 6.047 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

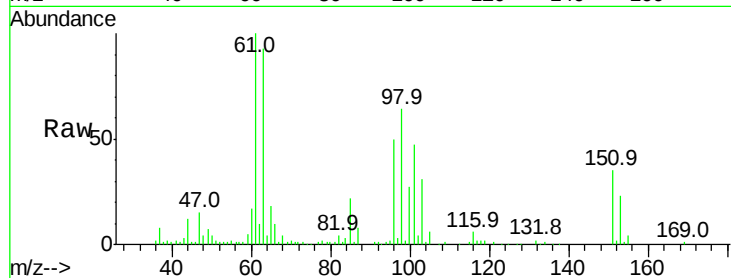
Tgt Ion: 101 Resp: 21135

Ion Ratio Lower Upper

101 100

85 48.4 37.4 56.2

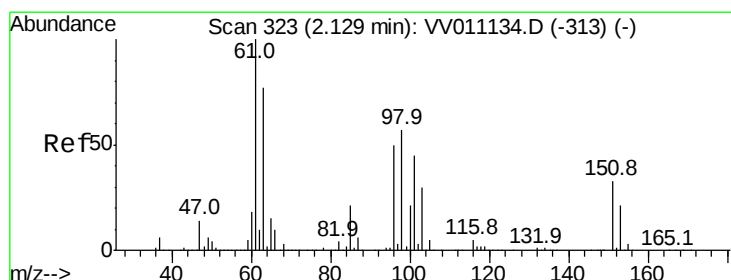
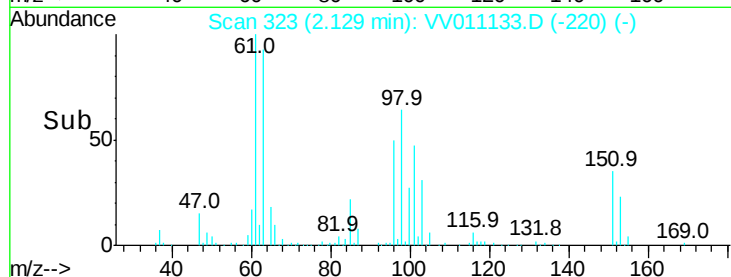
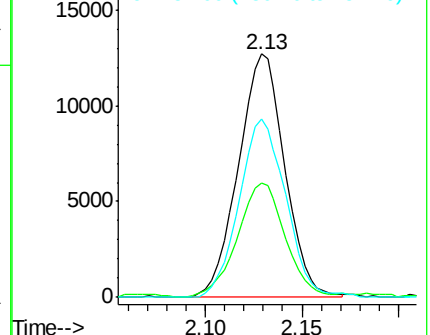
151 73.8 57.1 85.7



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: 6.097 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

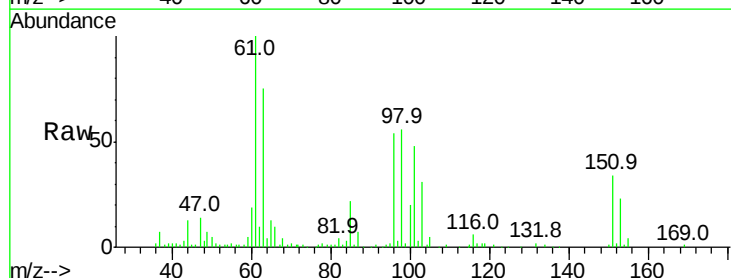
Tgt Ion: 96 Resp: 20054

Ion Ratio Lower Upper

96 100

61 186.8 141.6 263.0

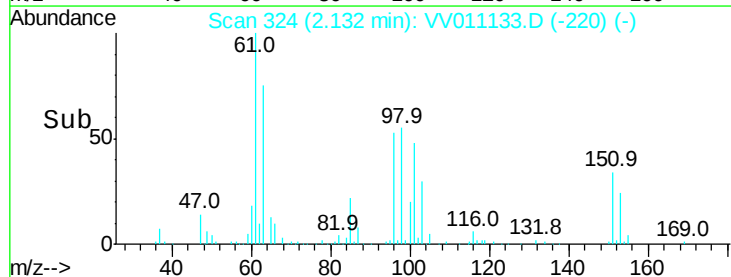
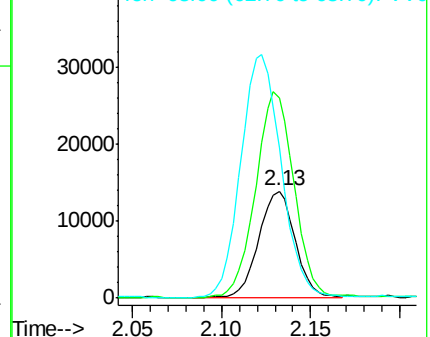
63 139.9 114.4 212.4

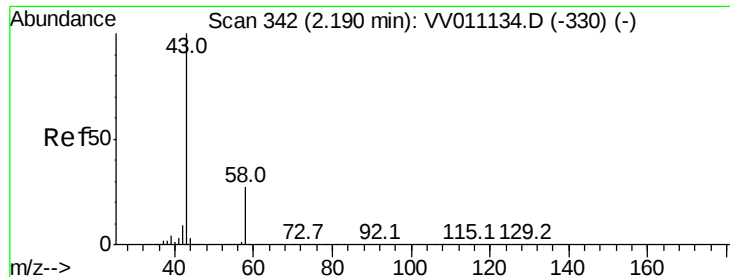


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 9.473 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampled :

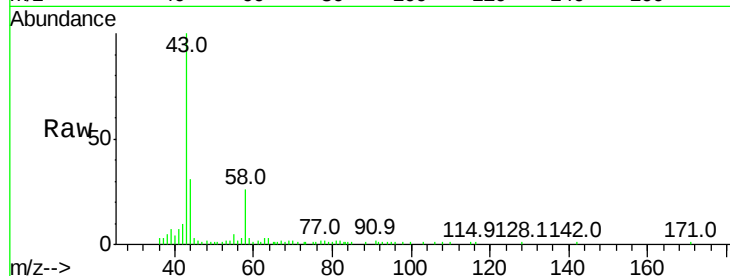
VSTD00568

Tgt Ion: 43 Resp: 16612

Ion Ratio Lower Upper

43 100

58 27.2 0.0 53.8



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

2.19

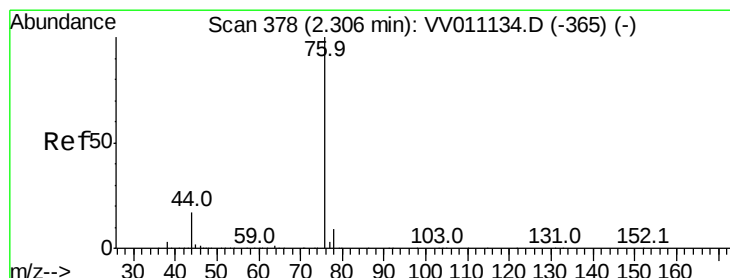
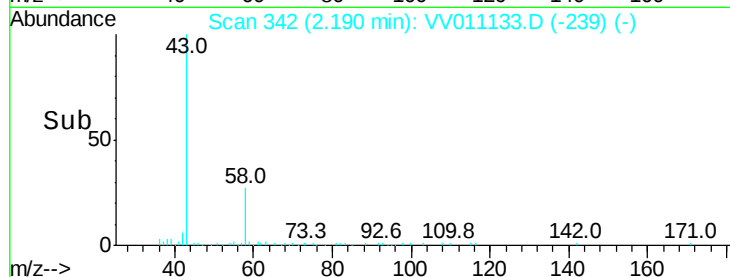
10000

5000

0

Time-->

2.15 2.20



#14

Carbon disulfide

Concen: 5.537 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.00 min

Lab File: VV011133.D

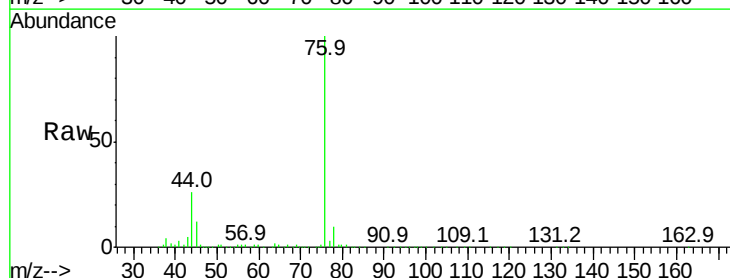
Acq: 30 May 2019 12:58

Tgt Ion: 76 Resp: 60923

Ion Ratio Lower Upper

76 100

78 10.0 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

50000

40000

30000

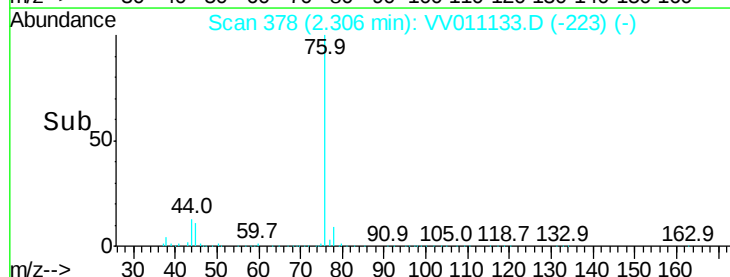
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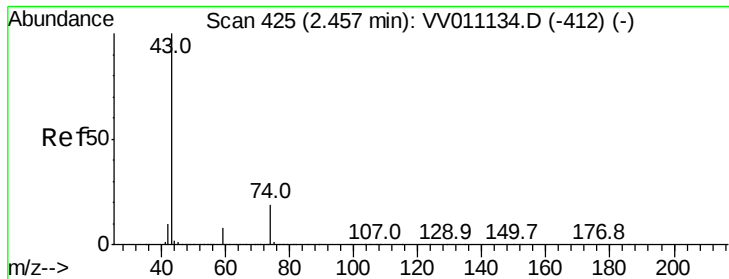
10000

0

Time-->

2.25 2.30 2.35 2.40





#15

Methyl Acetate

Concen: 5.489 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

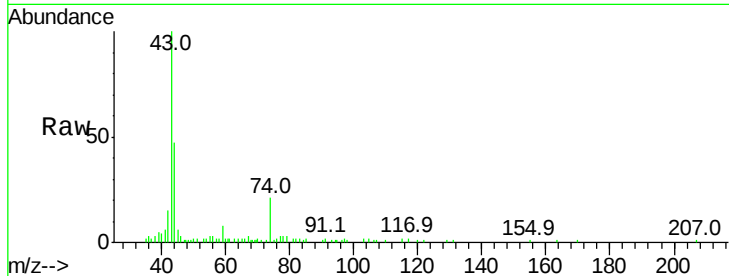
VSTD00568

Tgt Ion: 43 Resp: 13894

Ion Ratio Lower Upper

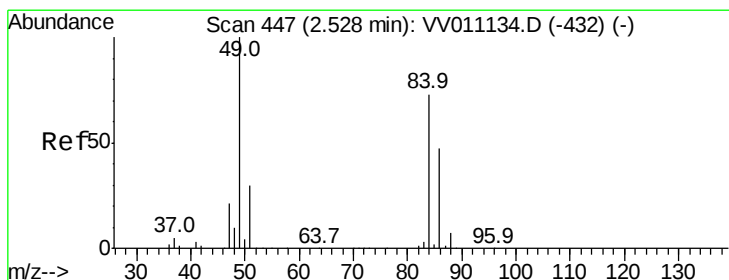
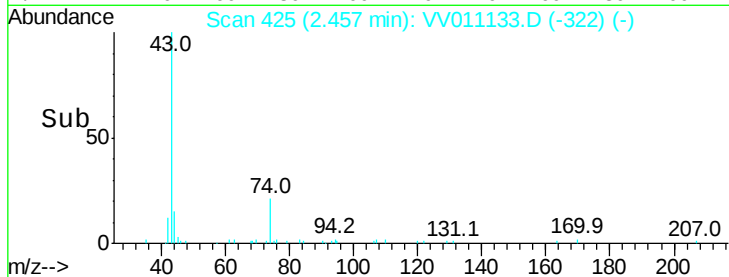
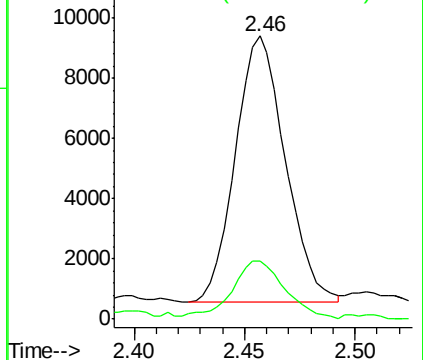
43 100

74 23.7 16.2 24.4



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0



#16

Methylene chloride

Concen: 5.473 ug/L

RT: 2.53 min Scan# 447

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

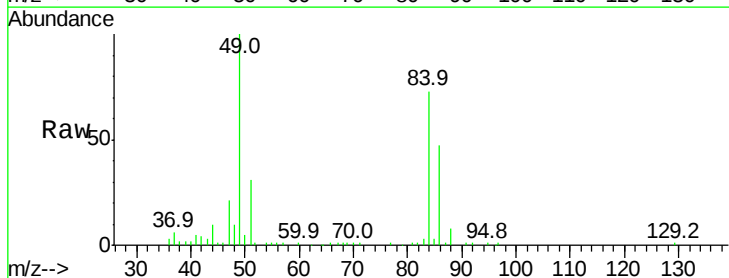
Tgt Ion: 84 Resp: 26211

Ion Ratio Lower Upper

84 100

49 136.2 96.1 178.5

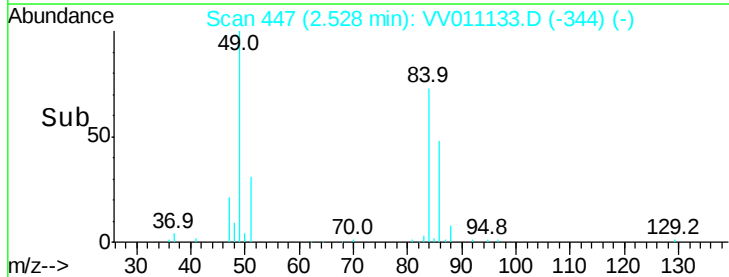
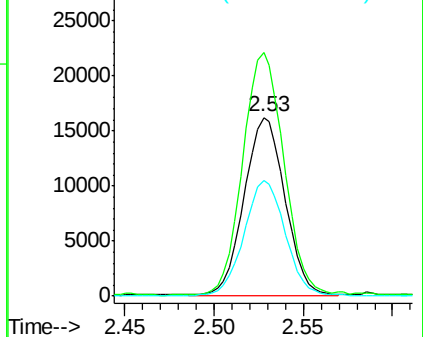
86 64.6 45.0 83.6

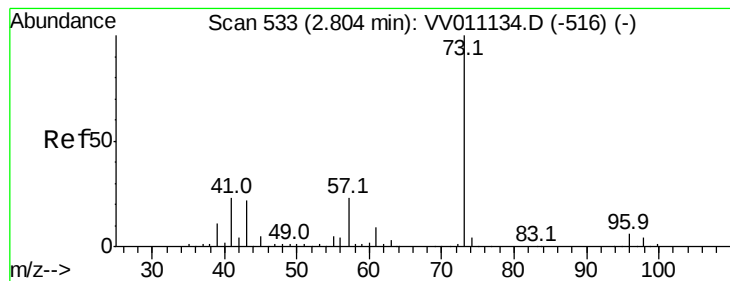


Abundance Ion 84.00 (83.70 to 84.70): VV0

Ion 49.00 (48.70 to 49.70): VV0

Ion 86.00 (85.70 to 86.70): VV0





#17

Methyl tert-butyl Ether

Concen: 5.252 ug/L

RT: 2.81 min Scan# 534

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

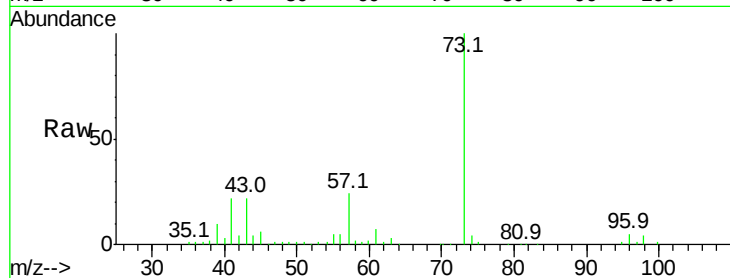
Tgt Ion: 73 Resp: 64703

Ion Ratio Lower Upper

73 100

43 21.8 17.5 26.3

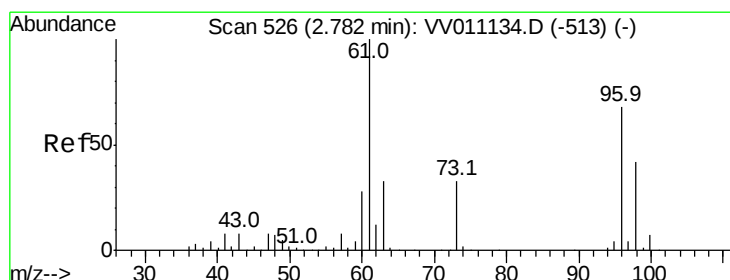
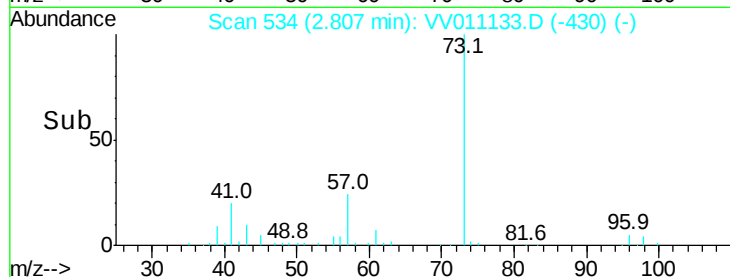
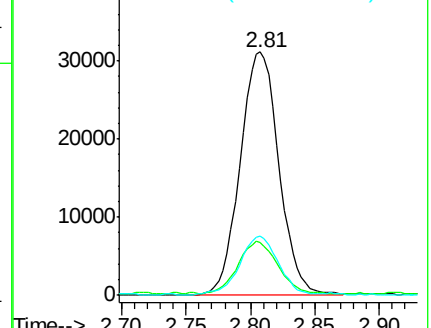
57 24.8 18.2 27.4



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: 5.298 ug/L

RT: 2.78 min Scan# 526

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

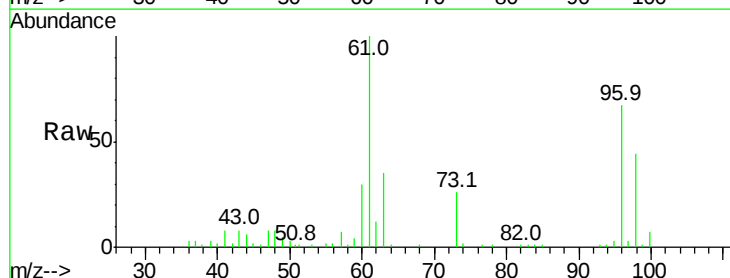
Tgt Ion: 96 Resp: 23835

Ion Ratio Lower Upper

96 100

61 149.2 102.6 190.5

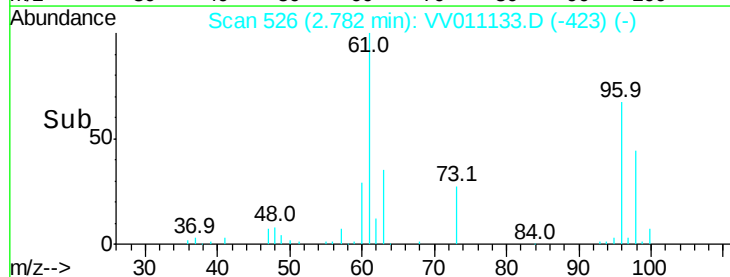
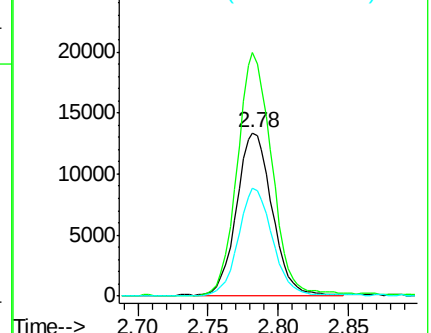
98 65.9 43.3 80.3

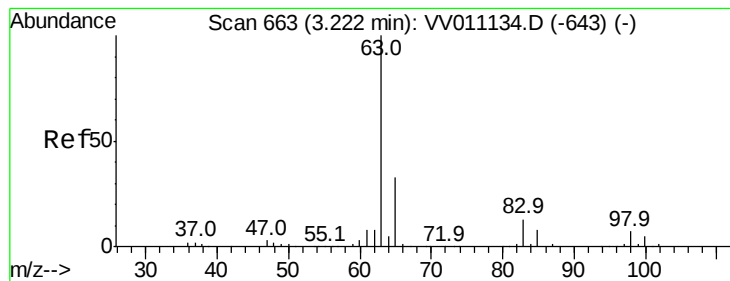


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 5.147 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

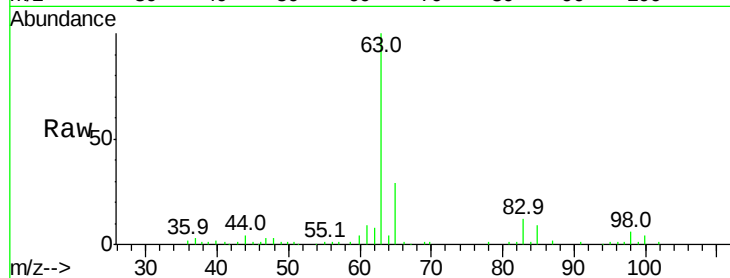
Tgt Ion: 63 Resp: 45016

Ion Ratio Lower Upper

63 100

65 29.2 22.7 42.3

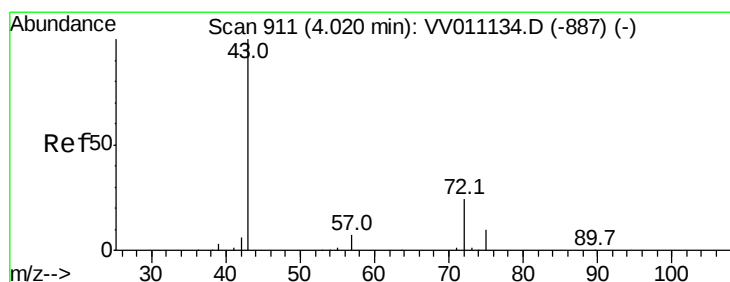
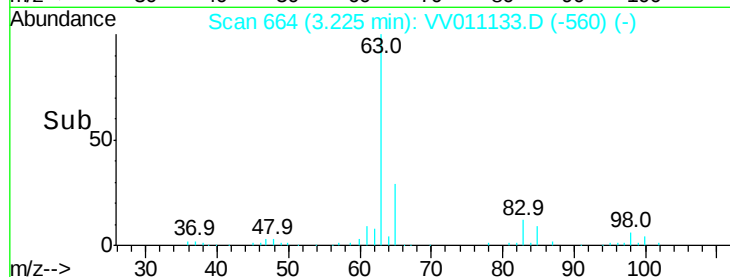
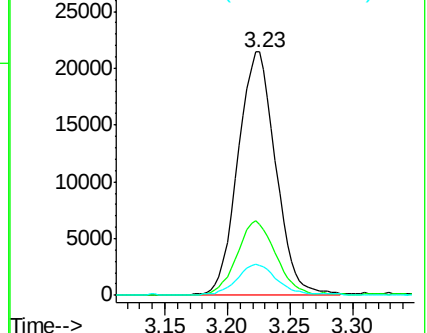
83 12.2 9.2 17.0



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



#21

2-Butanone

Concen: 7.867 ug/L

RT: 4.03 min Scan# 914

Delta R.T. 0.01 min

Lab File: VV011133.D

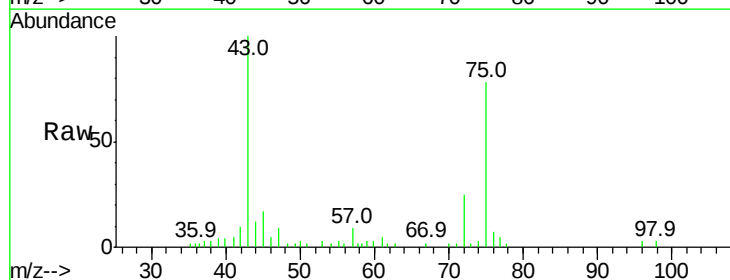
Acq: 30 May 2019 12:58

Tgt Ion: 43 Resp: 16989

Ion Ratio Lower Upper

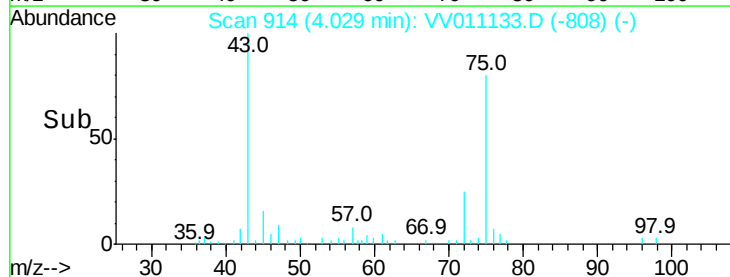
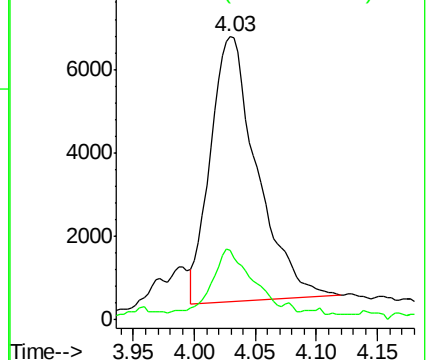
43 100

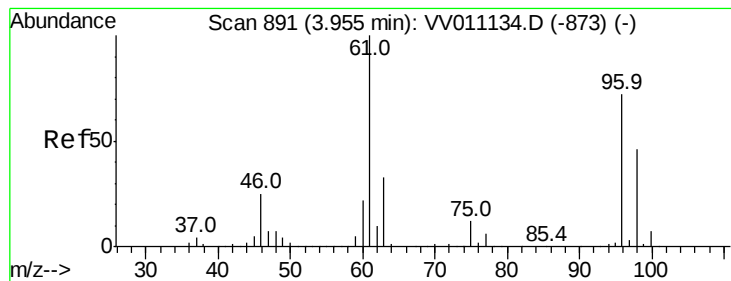
72 23.5 11.1 33.3



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0





#22

cis-1,2-Dichloroethene

Concen: 5.091 ug/L

RT: 3.96 min Scan# 891

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

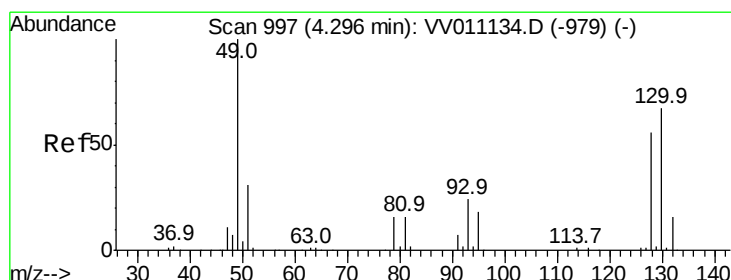
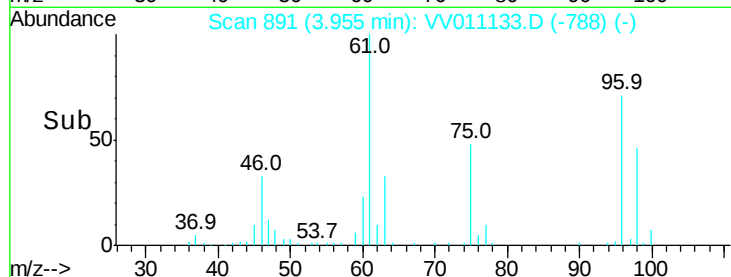
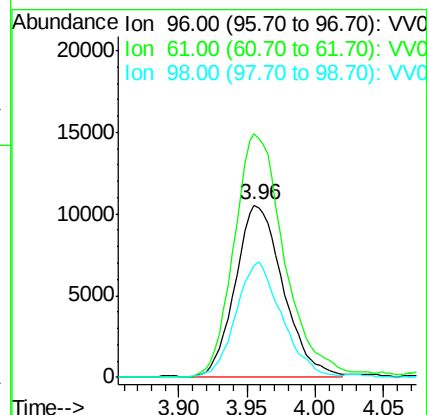
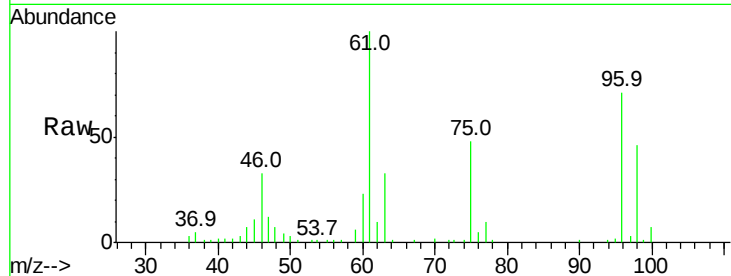
Tgt Ion: 96 Resp: 25797

Ion Ratio Lower Upper

96 100

61 141.6 97.4 181.0

98 65.0 45.0 83.6



#23

Bromochloromethane

Concen: 5.371 ug/L

RT: 4.30 min Scan# 997

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Tgt Ion: 128 Resp: 11530

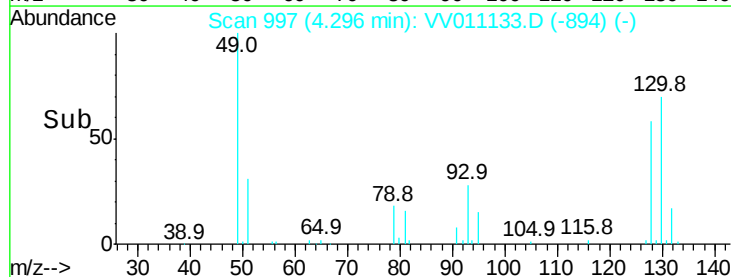
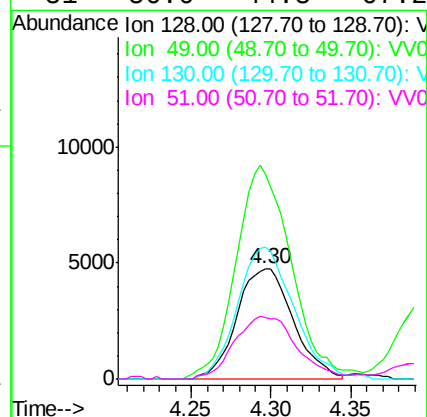
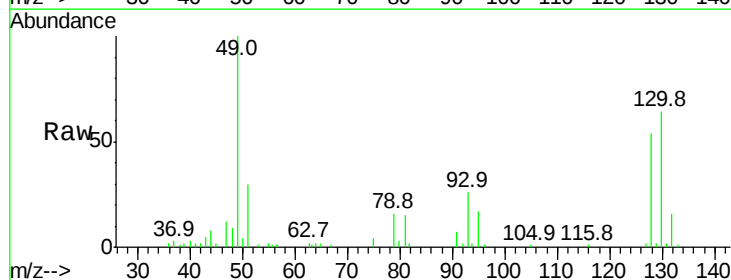
Ion Ratio Lower Upper

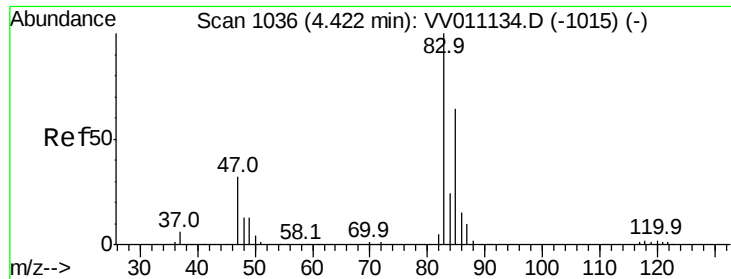
128 100

49 185.7 125.4 233.0

130 119.5 83.3 154.7

51 56.0 44.8 67.2

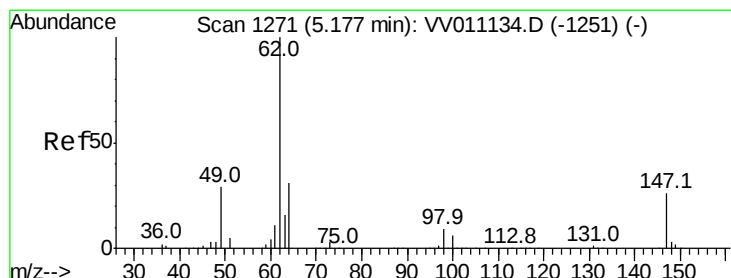
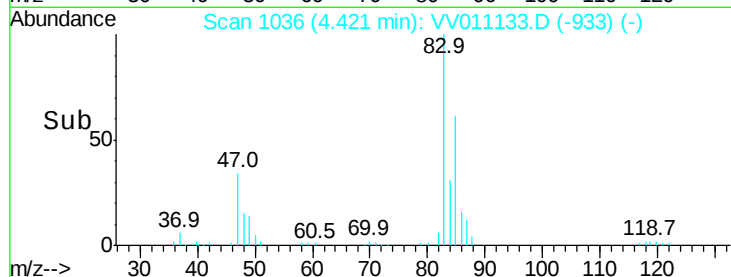
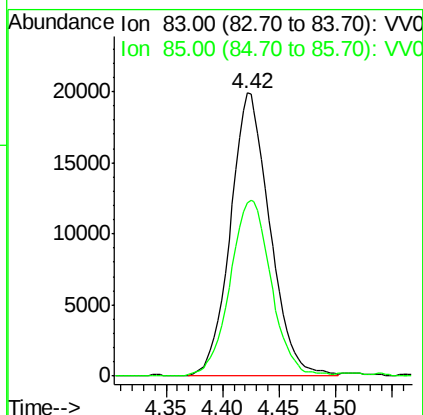
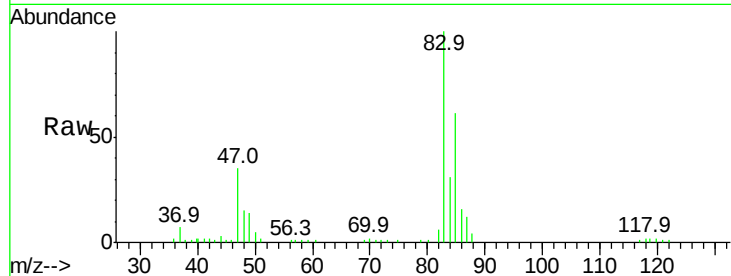




#25
Chloroform
Concen: 5.225 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

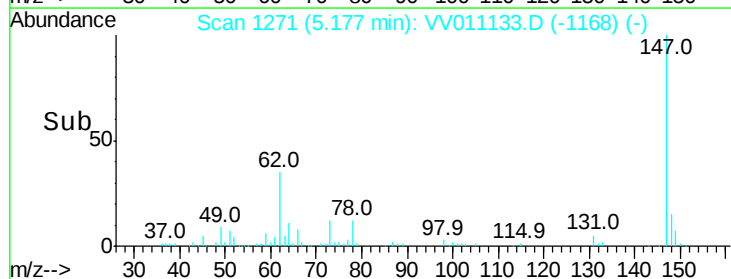
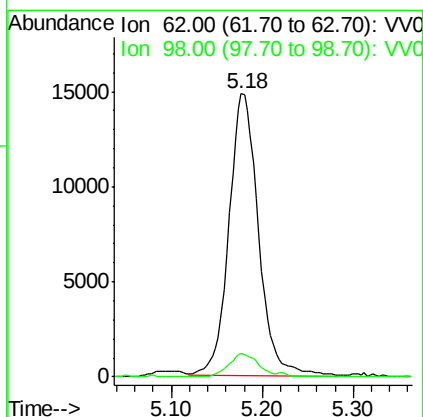
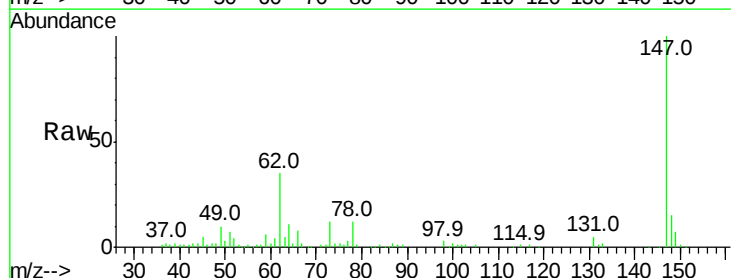
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

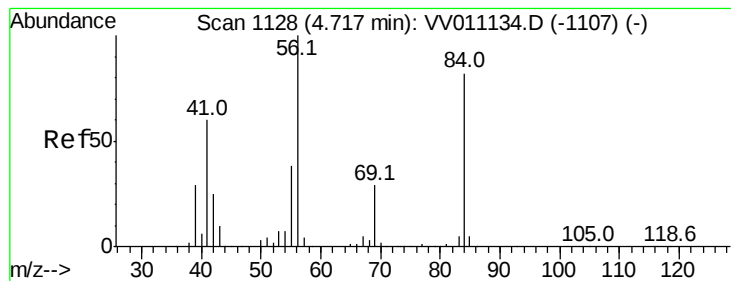
Tgt Ion: 83 Resp: 48262
Ion Ratio Lower Upper
83 100
85 64.4 45.6 84.6



#27
1,2-Dichloroethane
Concen: 5.562 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Tgt Ion: 62 Resp: 33468
Ion Ratio Lower Upper
62 100
98 8.1 7.4 11.0





#30

Cyclohexane

Concen: 4.782 ug/L

RT: 4.72 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

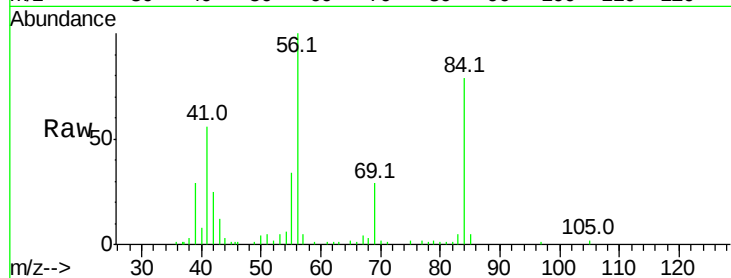
Tgt Ion: 56 Resp: 44331

Ion Ratio Lower Upper

56 100

69 29.8 23.4 35.0

84 83.4 65.8 98.8

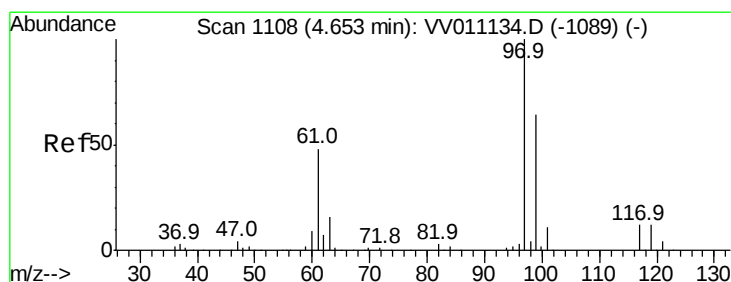
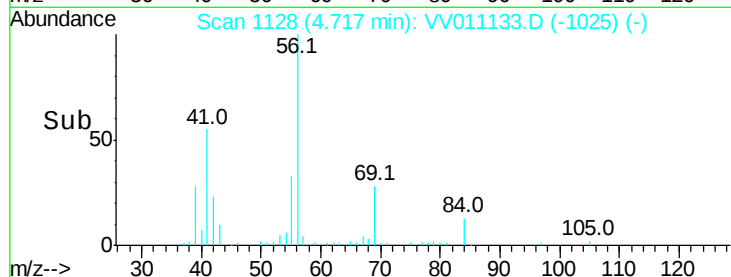
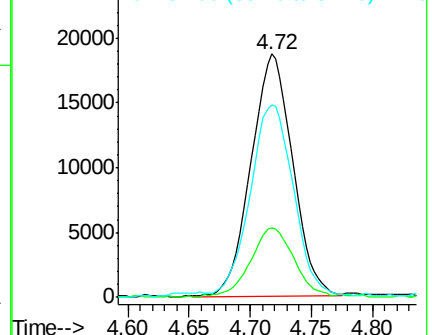


Abundance

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: 4.863 ug/L

RT: 4.65 min Scan# 1108

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

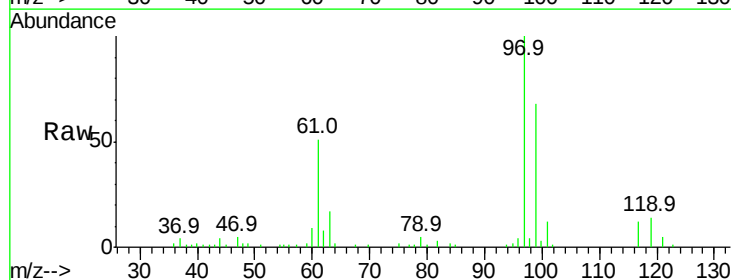
Tgt Ion: 97 Resp: 35439

Ion Ratio Lower Upper

97 100

99 65.7 51.3 76.9

61 51.3 38.4 57.6

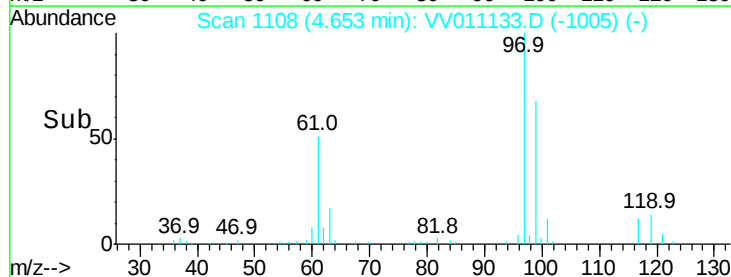
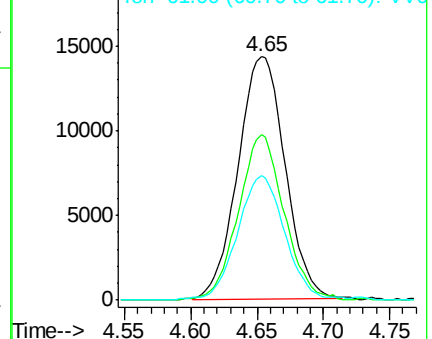


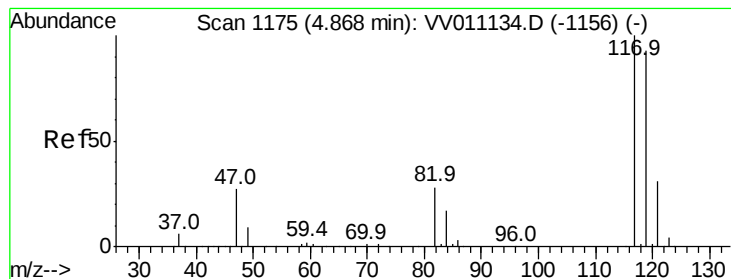
Abundance

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



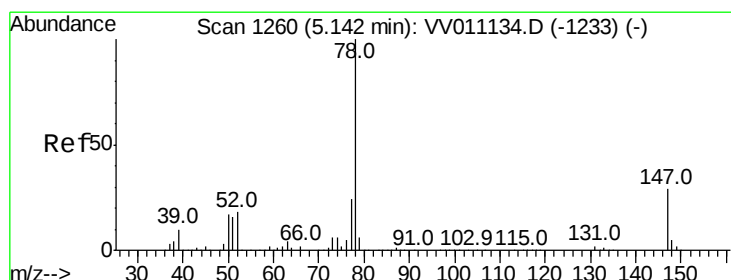
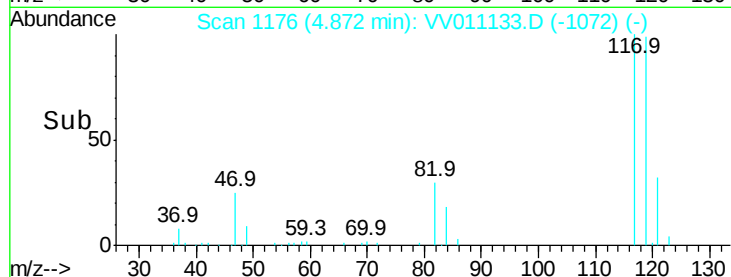
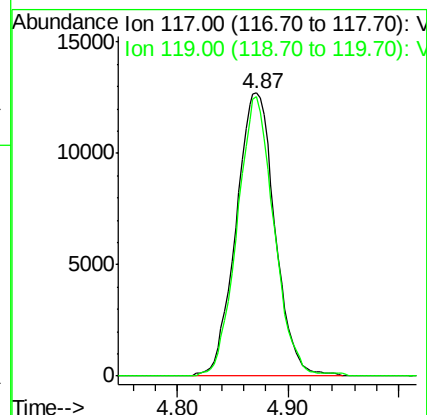
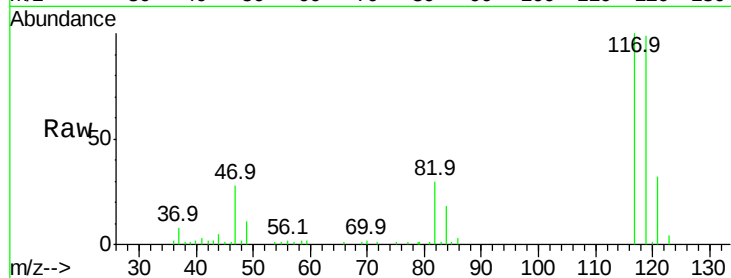


#32

Carbon tetrachloride
Concen: 4.971 ug/L
RT: 4.87 min Scan# 1176
Delta R.T. 0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

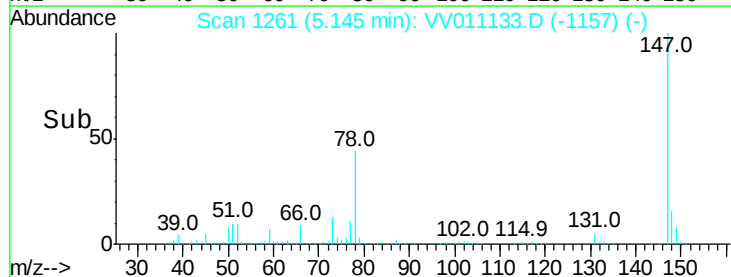
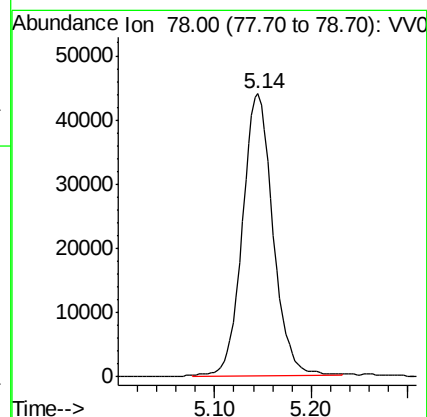
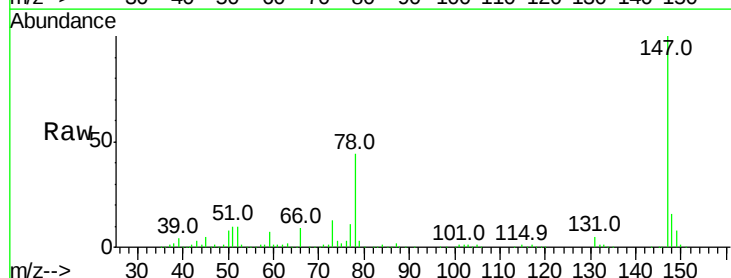
Tgt Ion:117 Resp: 31023
Ion Ratio Lower Upper
117 100
119 93.5 76.3 114.5

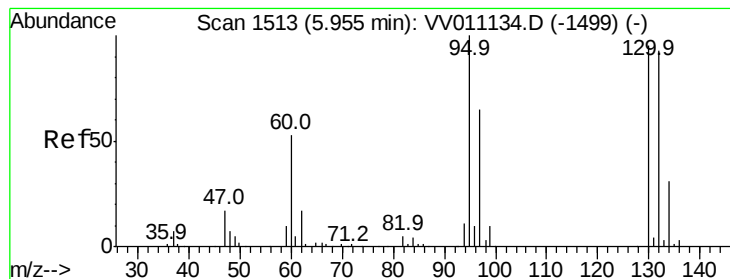


#34

Benzene
Concen: 5.006 ug/L
RT: 5.14 min Scan# 1261
Delta R.T. 0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Tgt Ion: 78 Resp: 96882





#35

Trichloroethene

Concen: 5.074 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

Tgt Ion: 95 Resp: 25649

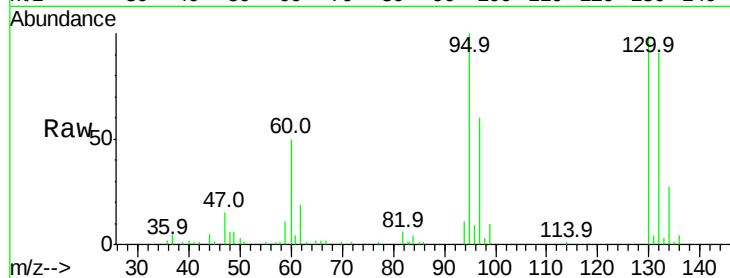
Ion Ratio Lower Upper

95 100

97 62.4 44.4 82.5

132 90.1 66.0 122.6

130 96.6 67.4 125.2

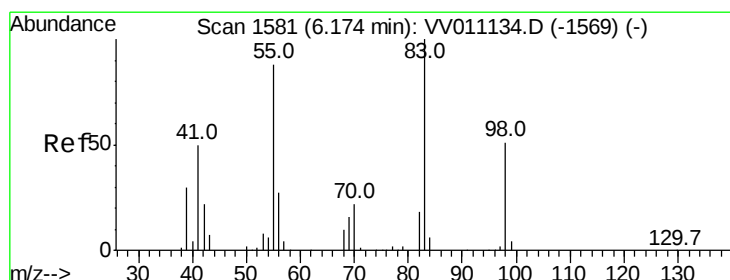
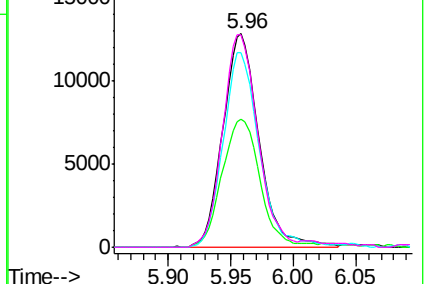
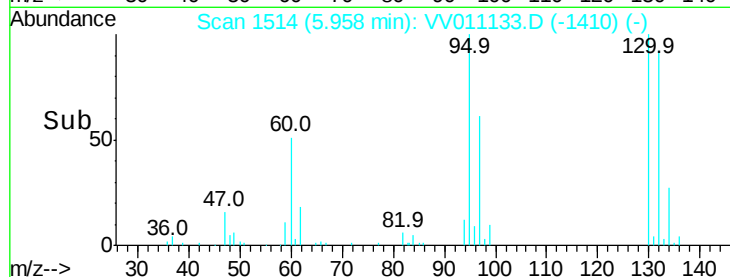


Abundance Ion 95.00 (94.70 to 95.70): VV011133.D (-1499) (-)

Ion 97.00 (96.70 to 97.70): VV011133.D (-1499) (-)

Ion 132.00 (131.70 to 132.70): VV011133.D (-1499) (-)

Ion 130.00 (129.70 to 130.70): VV011133.D (-1499) (-)



#36

Methylcyclohexane

Concen: 5.004 ug/L

RT: 6.17 min Scan# 1581

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

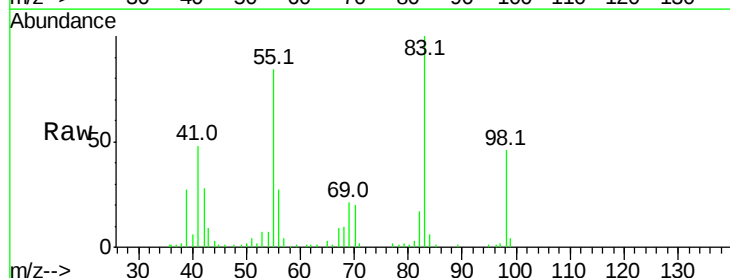
Tgt Ion: 83 Resp: 43644

Ion Ratio Lower Upper

83 100

55 82.7 66.4 99.6

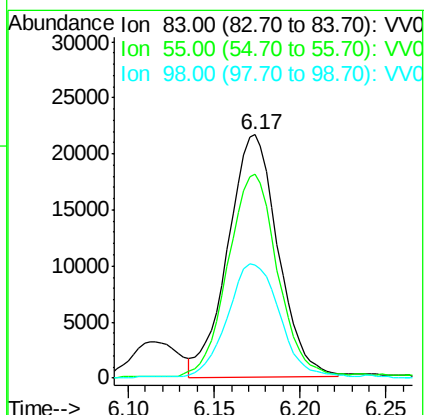
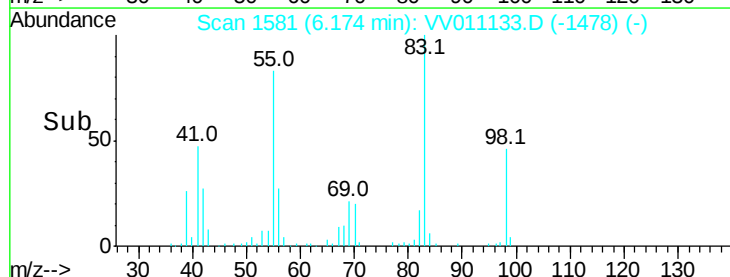
98 48.8 37.9 56.9

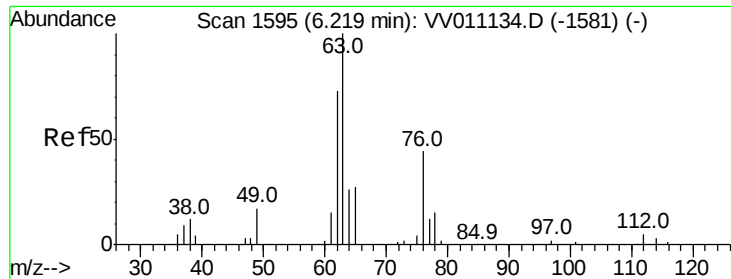


Abundance Ion 83.00 (82.70 to 83.70): VV011133.D (-1569) (-)

Ion 55.00 (54.70 to 55.70): VV011133.D (-1569) (-)

Ion 98.00 (97.70 to 98.70): VV011133.D (-1569) (-)

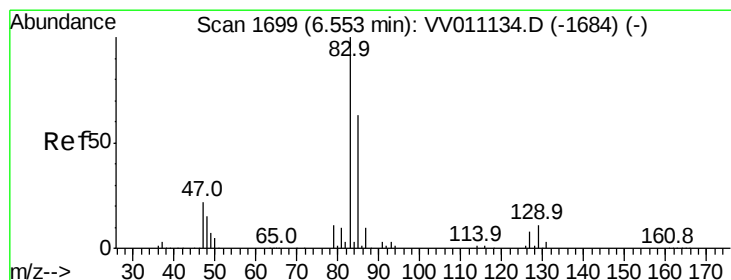
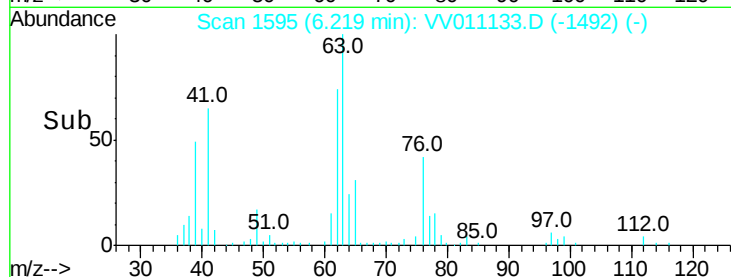
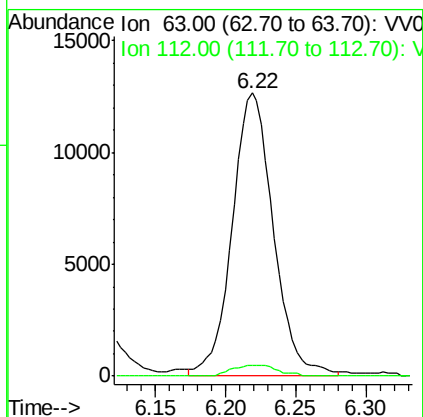
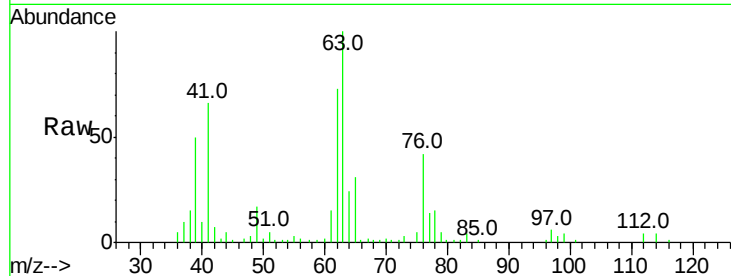




#40
 1,2-Dichloropropane
 Concen: 5.024 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

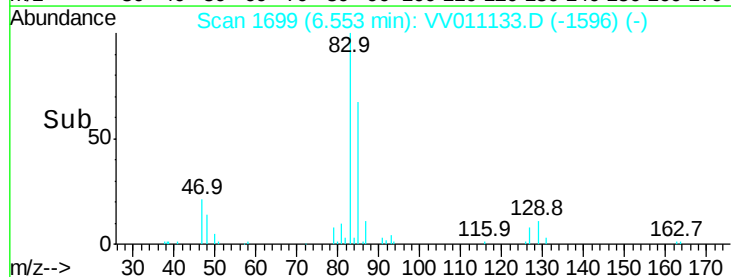
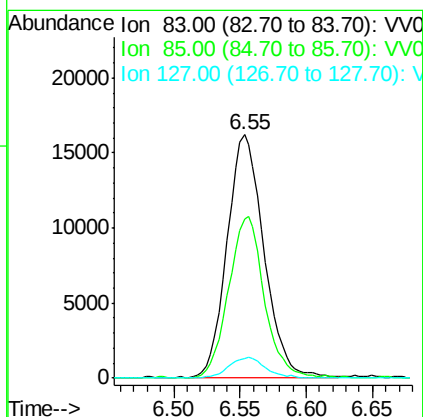
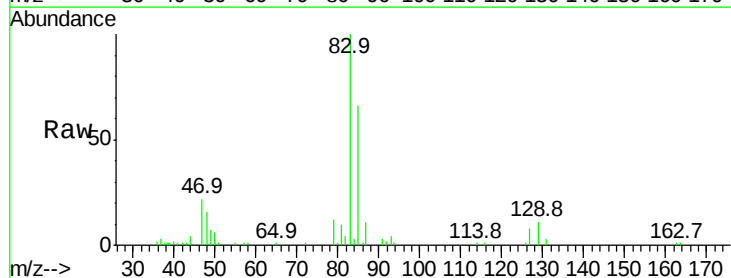
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

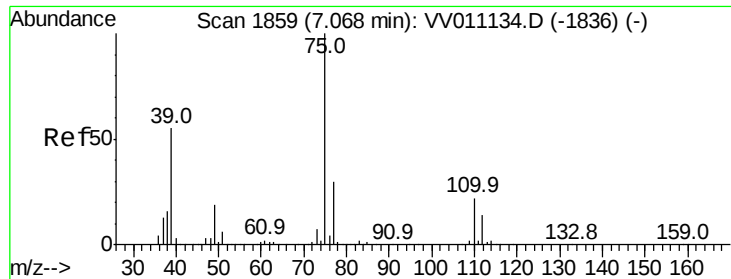
Tgt Ion: 63 Resp: 25911
 Ion Ratio Lower Upper
 63 100
 112 2.4 3.6 5.4#



#41
 Bromodichloromethane
 Concen: 4.821 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

Tgt Ion: 83 Resp: 31522
 Ion Ratio Lower Upper
 83 100
 85 65.5 44.1 81.9
 127 8.3 6.3 9.5





#42

cis-1,3-Dichloropropene

Concen: 4.523 ug/L

RT: 7.07 min Scan# 1860

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

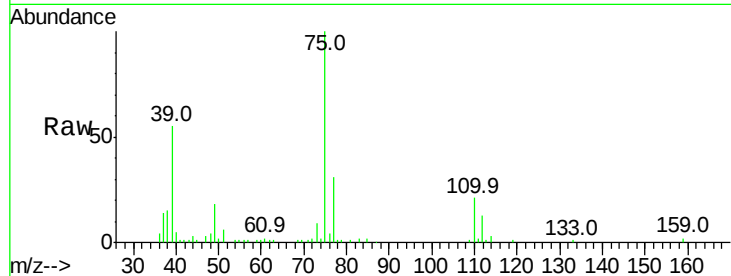
VSTD00568

Tgt Ion: 75 Resp: 37276

Ion Ratio Lower Upper

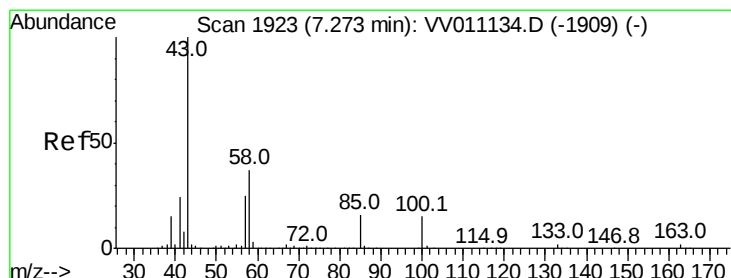
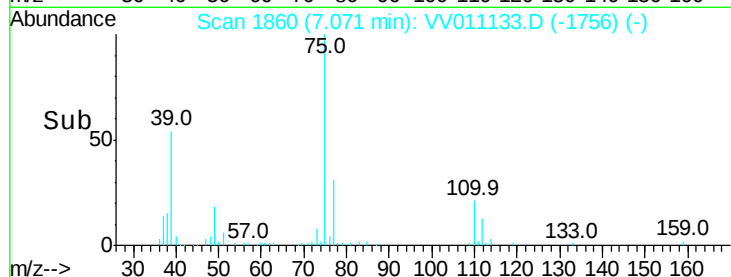
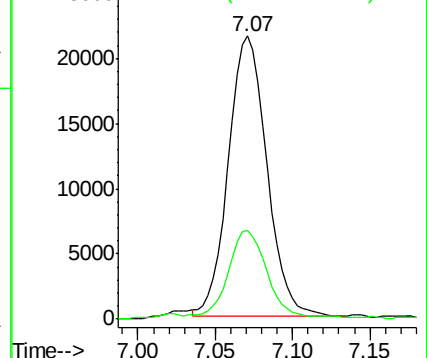
75 100

77 31.3 21.3 39.6



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#43

4-Methyl-2-pentanone

Concen: 9.616 ug/L

RT: 7.27 min Scan# 1923

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

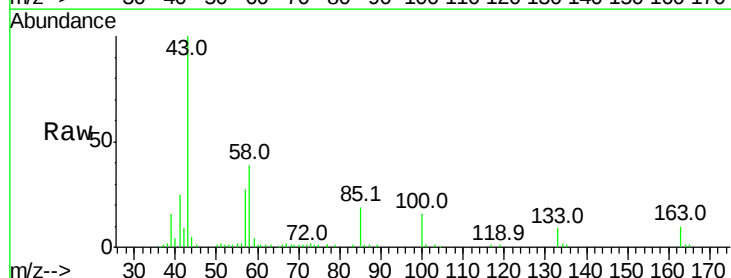
Tgt Ion: 43 Resp: 43496

Ion Ratio Lower Upper

43 100

58 37.5 30.2 45.4

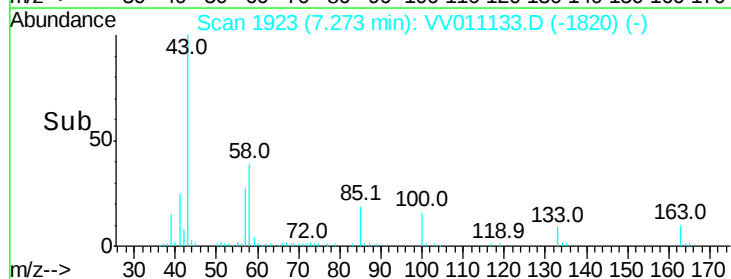
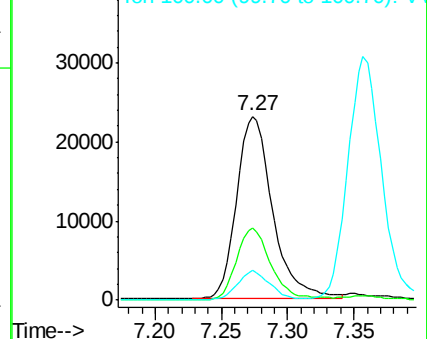
100 14.7 11.3 16.9

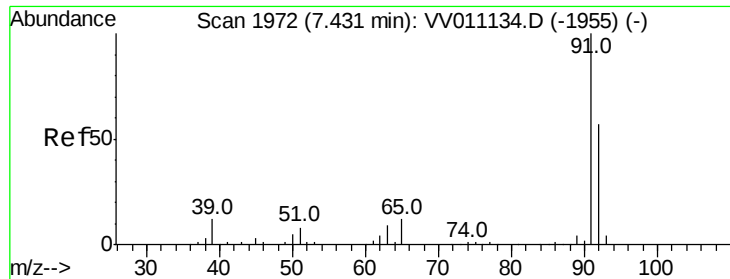


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 5.044 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

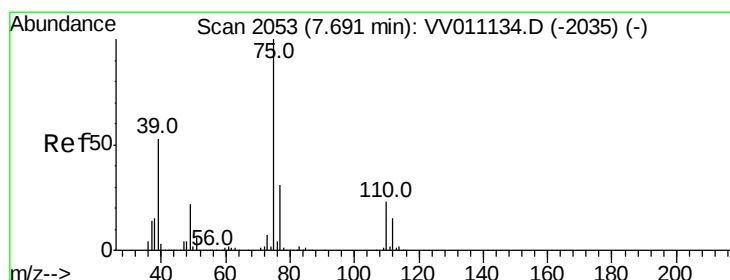
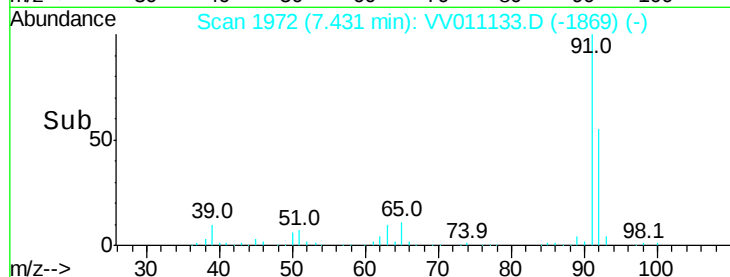
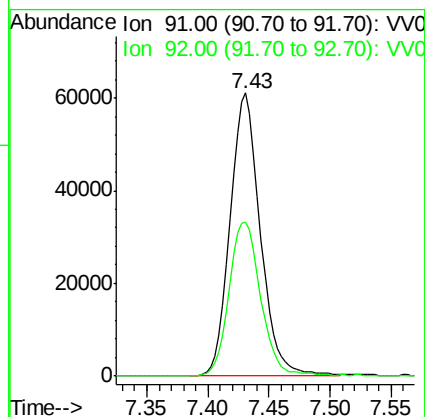
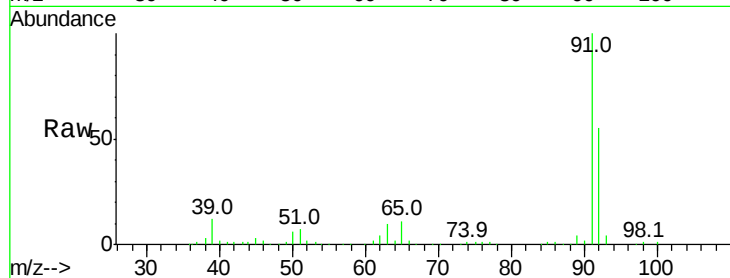
VSTD00568

Tgt Ion: 91 Resp: 106134

Ion Ratio Lower Upper

91 100

92 54.6 39.9 74.1



#45

trans-1,3-Dichloropropene

Concen: 4.413 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV011133.D

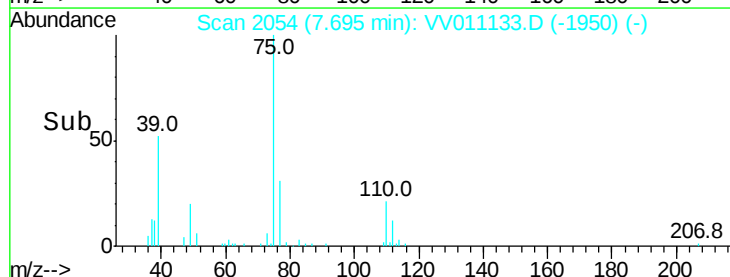
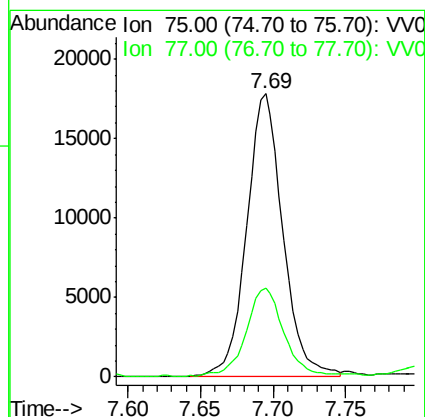
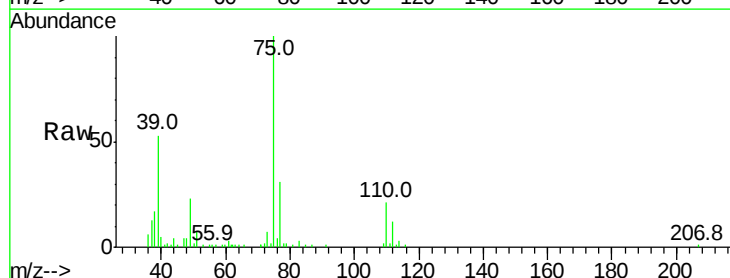
Acq: 30 May 2019 12:58

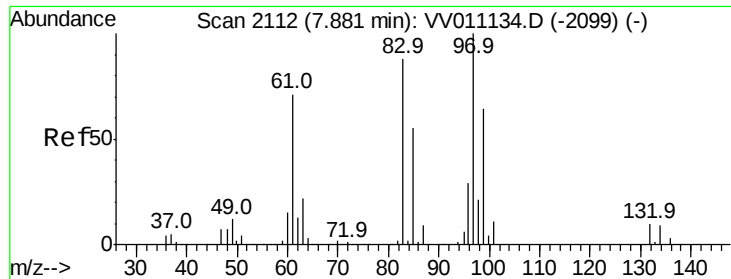
Tgt Ion: 75 Resp: 31034

Ion Ratio Lower Upper

75 100

77 31.2 22.1 41.1

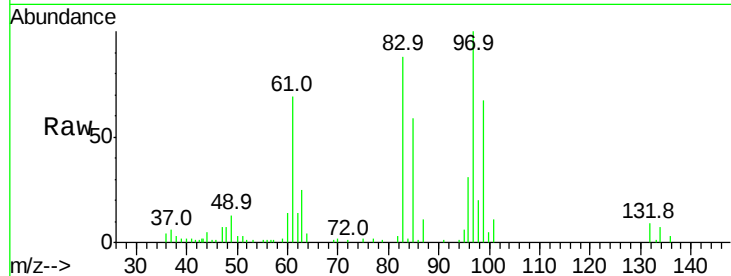




#46
 1,1,2-Trichloroethane
 Concen: 4.988 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

Tgt Ion:	97	Resp:	19067
Ion	Ratio	Lower	Upper
97	100		
83	87.6	61.9	115.1
85	59.3	38.6	71.8
99	66.8	44.7	82.9

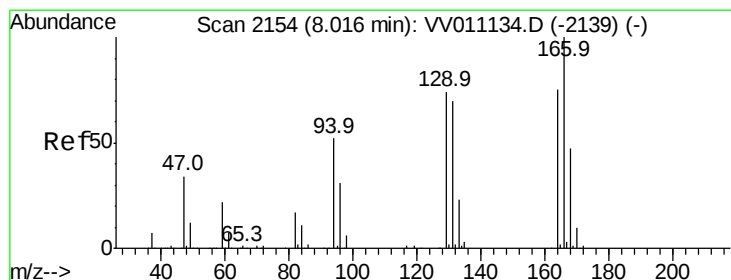
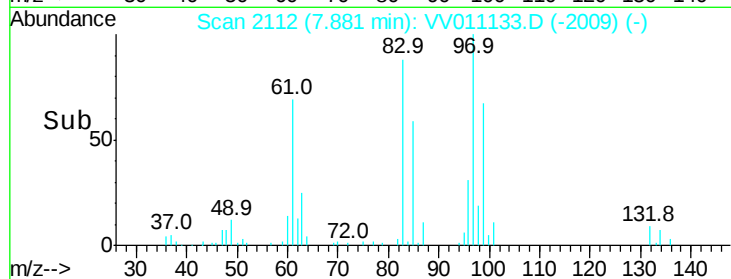
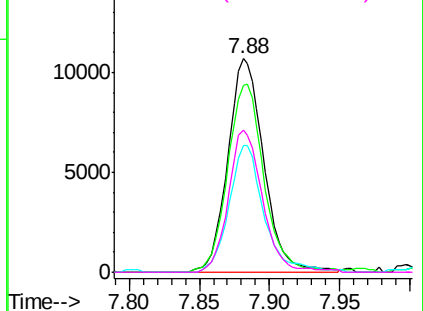


Abundance Ion 97.00 (96.70 to 97.70): VV011133.D (-2099) (-)

Ion 83.00 (82.70 to 83.70): VV011133.D (-2099) (-)

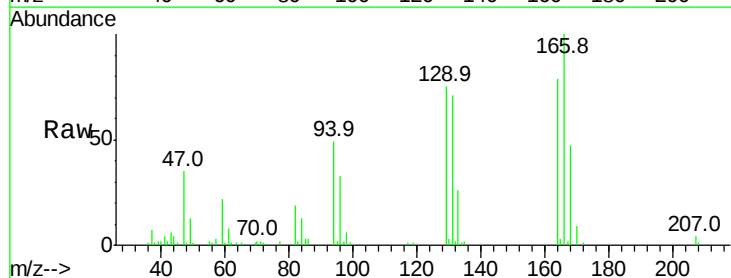
Ion 85.00 (84.70 to 85.70): VV011133.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV011133.D (-2099) (-)



#47
 Tetrachloroethene
 Concen: 5.300 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

Tgt Ion:	164	Resp:	19321
Ion	Ratio	Lower	Upper
164	100		
129	96.0	69.1	128.3
131	90.4	65.5	121.6
166	127.4	93.2	173.0

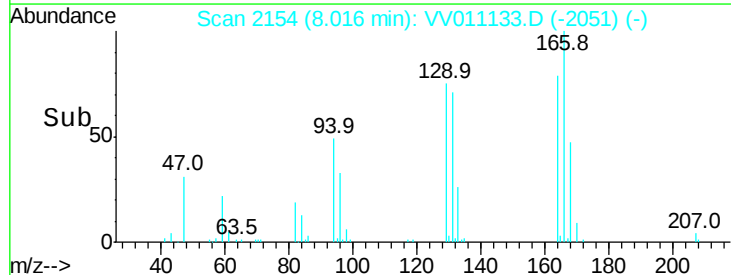
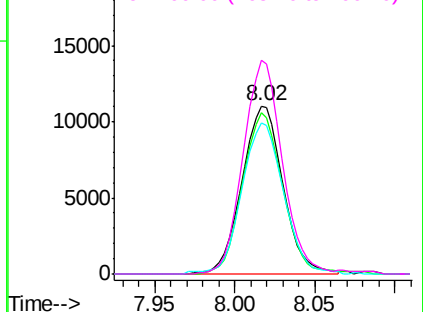


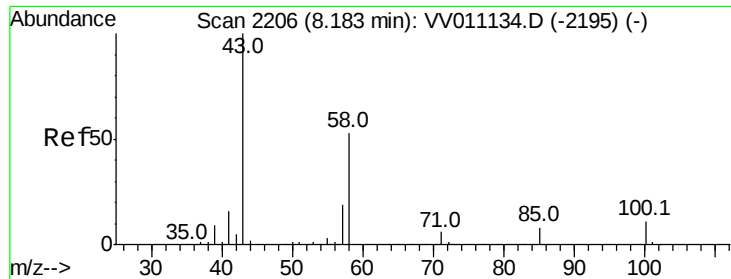
Abundance Ion 164.00 (163.70 to 164.70): VV011133.D (-2051) (-)

Ion 129.00 (128.70 to 129.70): VV011133.D (-2051) (-)

Ion 131.00 (130.70 to 131.70): VV011133.D (-2051) (-)

Ion 166.00 (165.70 to 166.70): VV011133.D (-2051) (-)

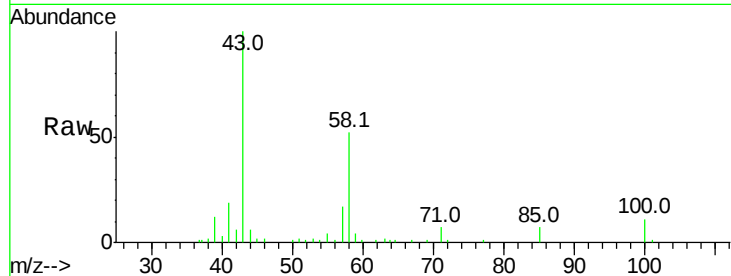




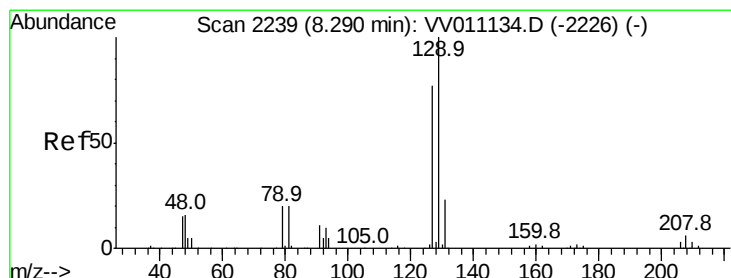
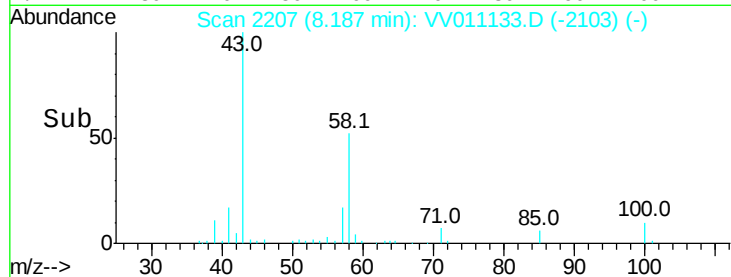
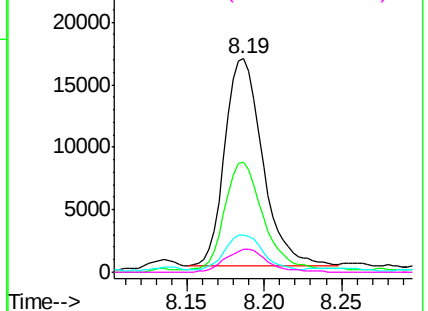
#49
2-Hexanone
Concen: 8.413 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

Tgt Ion: 43 Resp: 28065
Ion Ratio Lower Upper
43 100
58 53.6 41.2 61.8
57 17.4 14.3 21.5
100 12.2 9.1 13.7

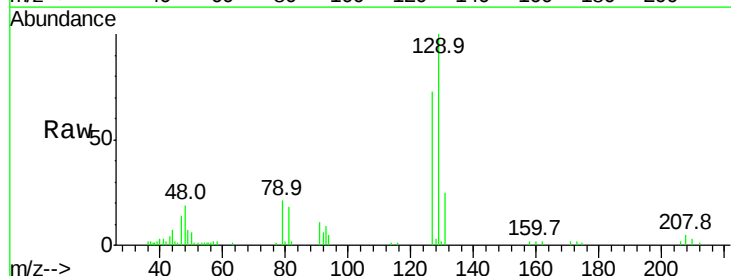


Abundance Ion 43.00 (42.70 to 43.70): VV011133.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV011133.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV011133.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV011133.D (-2195) (-)

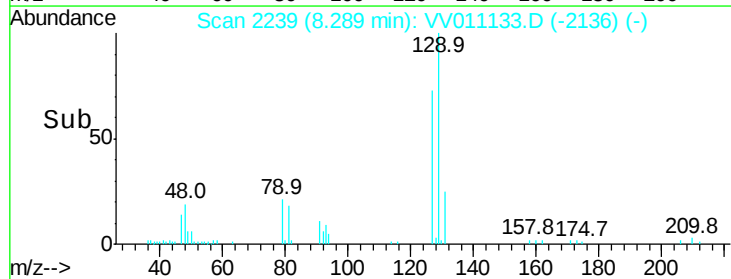
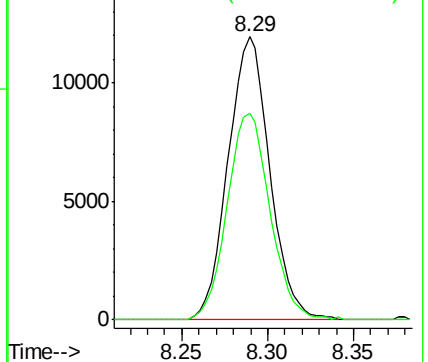


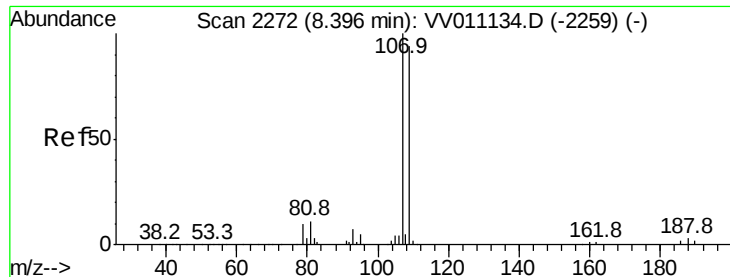
#50
Dibromochloromethane
Concen: 4.543 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Tgt Ion: 129 Resp: 20122
Ion Ratio Lower Upper
129 100
127 73.1 53.8 99.8



Abundance Ion 129.00 (128.70 to 129.70): VV011133.D (-2226) (-)
Ion 127.00 (126.70 to 127.70): VV011133.D (-2226) (-)





#51

1,2-Dibromoethane

Concen: 4.866 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

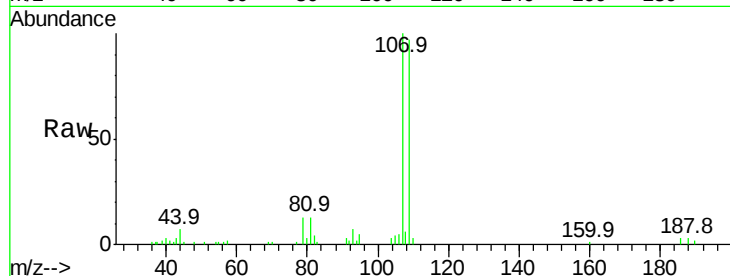
Tgt Ion:107 Resp: 17801

Ion Ratio Lower Upper

107 100

109 97.1 65.5 121.7

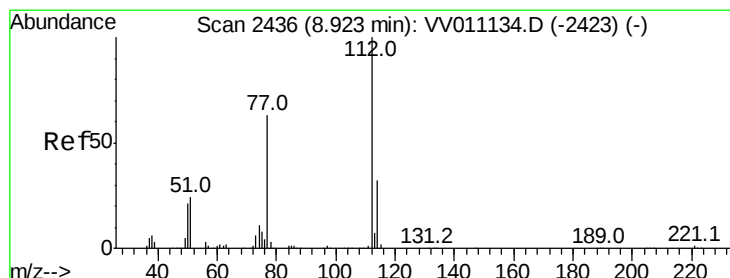
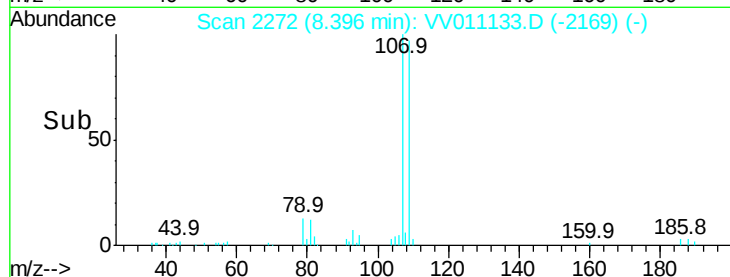
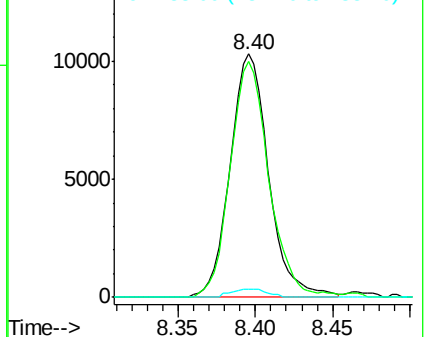
188 3.4 2.6 3.8



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: 5.134 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

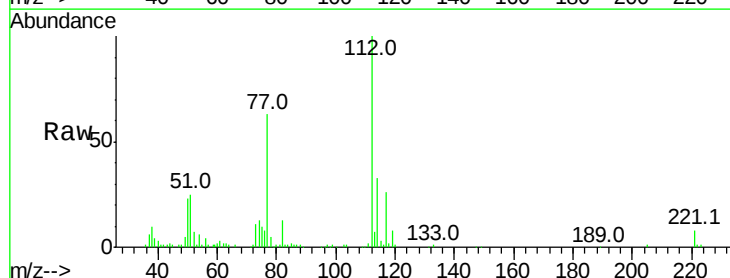
Tgt Ion:112 Resp: 66953

Ion Ratio Lower Upper

112 100

77 62.9 50.8 76.2

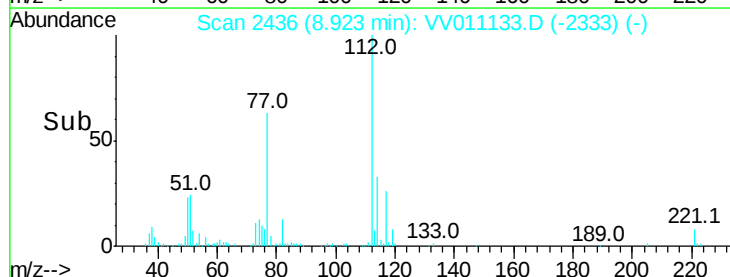
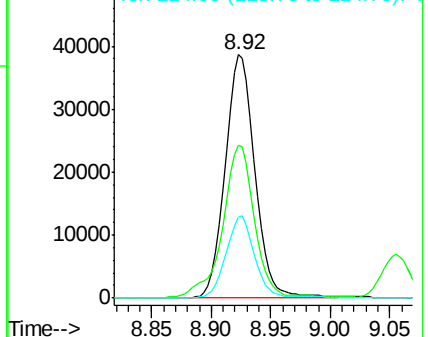
114 33.1 22.6 42.0

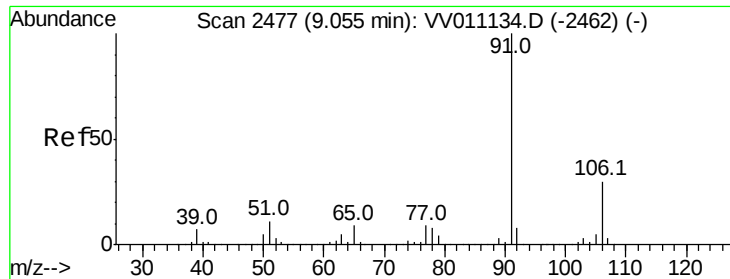


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): VV0

Ion 114.00 (113.70 to 114.70): V

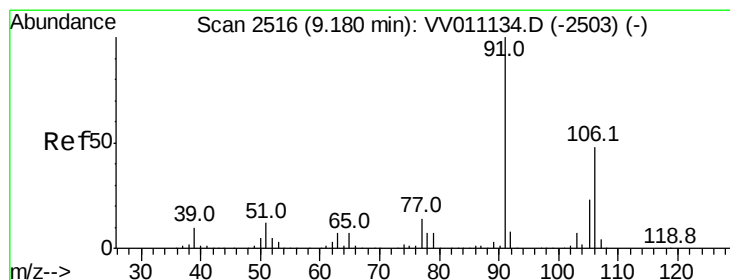
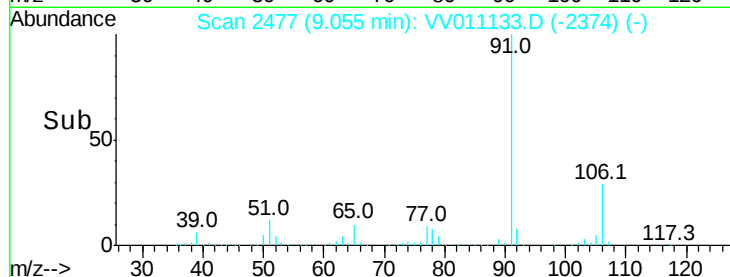
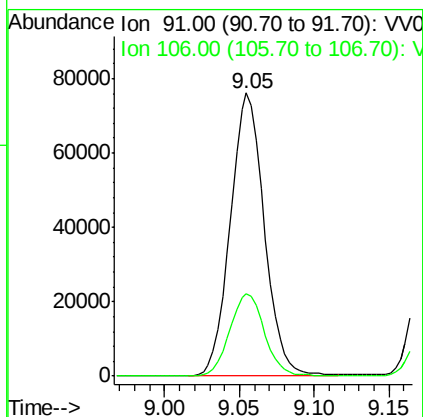
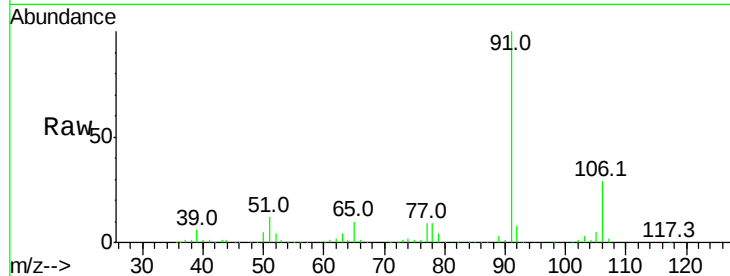




#53
Ethylbenzene
Concen: 5.026 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

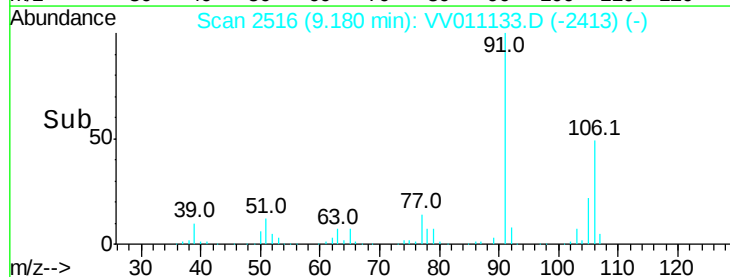
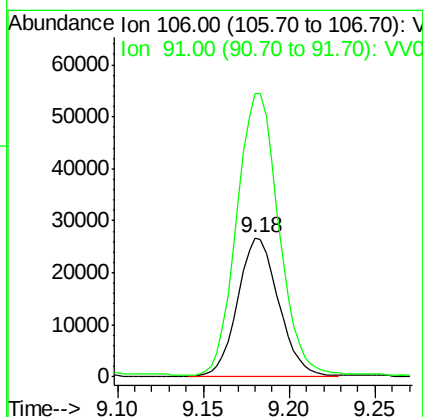
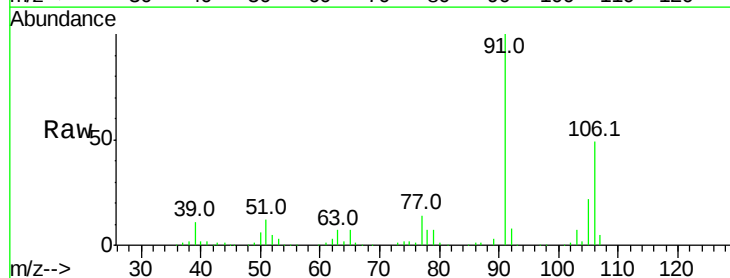
Instrument :
MSVOA_V
ClientSampleId :
VSTD00568

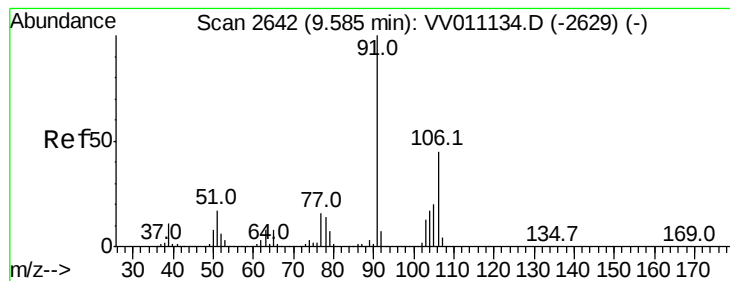
Tgt Ion: 91 Resp: 120580
Ion Ratio Lower Upper
91 100
106 29.3 21.2 39.4



#54
m,p-Xylene
Concen: 4.953 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV011133.D
Acq: 30 May 2019 12:58

Tgt Ion: 106 Resp: 44257
Ion Ratio Lower Upper
106 100
91 203.4 145.3 269.9





#55

o-xylene

Concen: 5.035 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

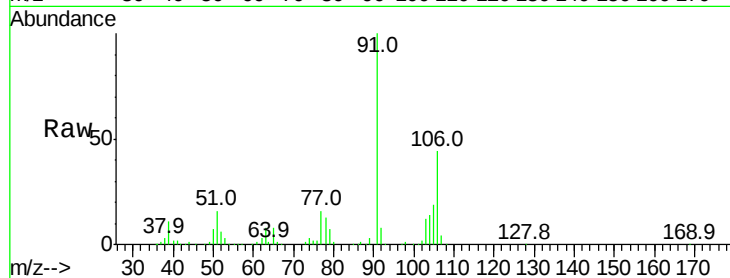
VSTD00568

Tgt Ion:106 Resp: 43718

Ion Ratio Lower Upper

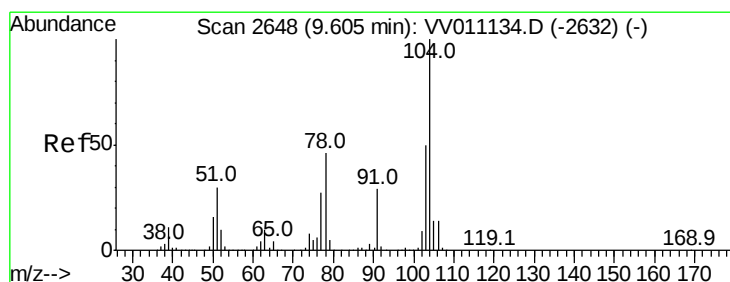
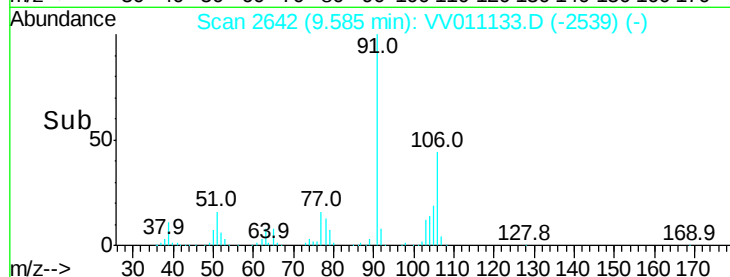
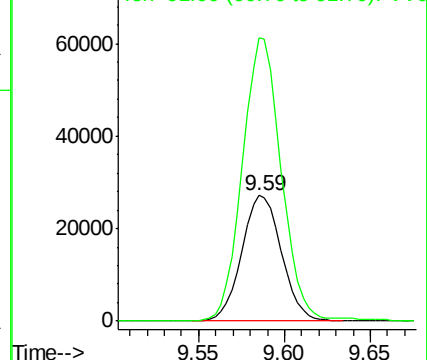
106 100

91 225.7 156.4 290.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 4.777 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV011133.D

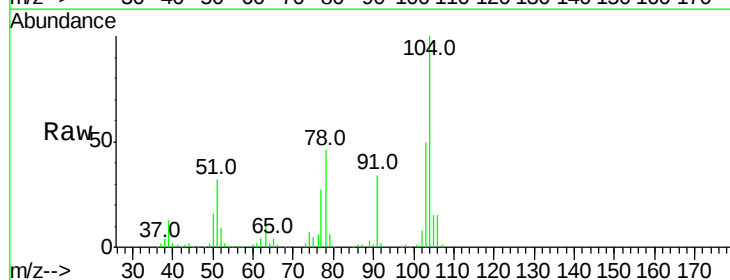
Acq: 30 May 2019 12:58

Tgt Ion:104 Resp: 70326

Ion Ratio Lower Upper

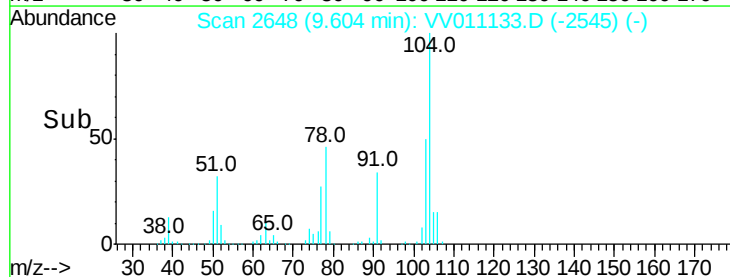
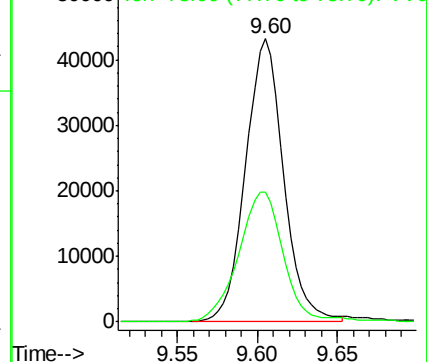
104 100

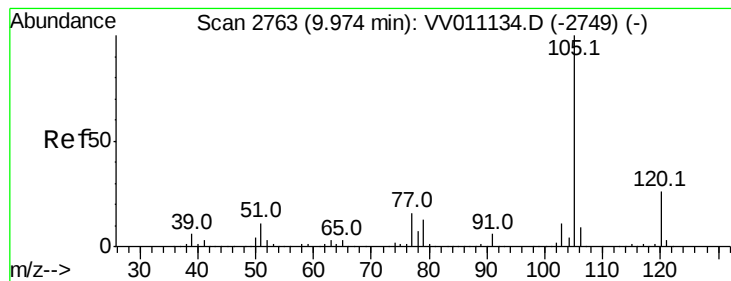
78 45.8 32.3 60.1



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 5.084 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

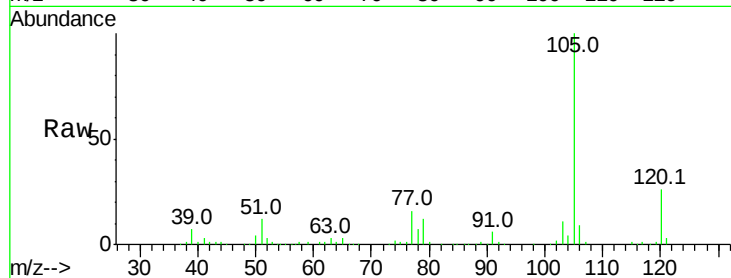
Tgt Ion: 105 Resp: 117814

Ion Ratio Lower Upper

105 100

120 25.6 20.6 31.0

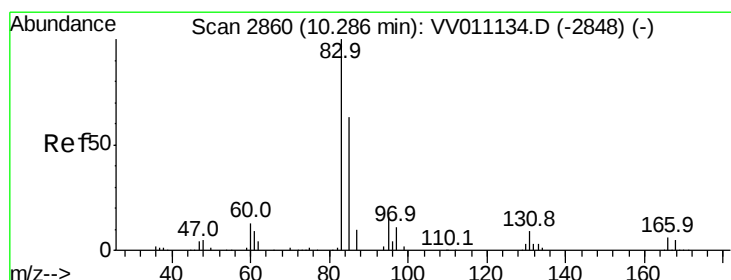
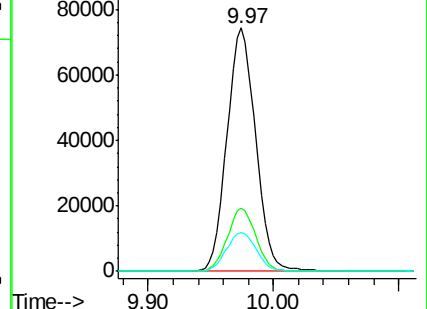
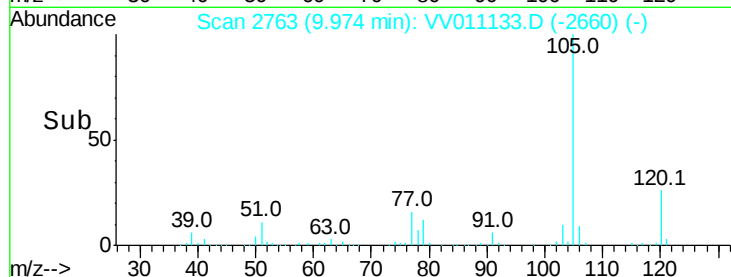
77 16.8 13.3 19.9



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: 5.095 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

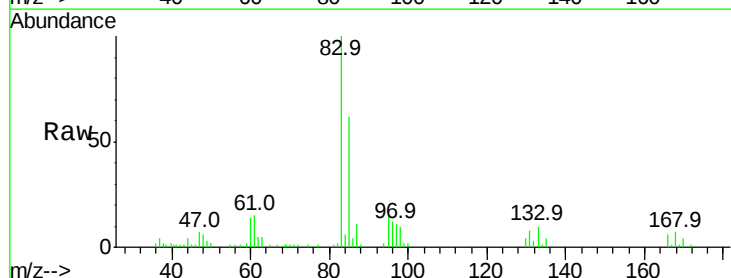
Tgt Ion: 83 Resp: 25659

Ion Ratio Lower Upper

83 100

85 62.3 44.4 82.4

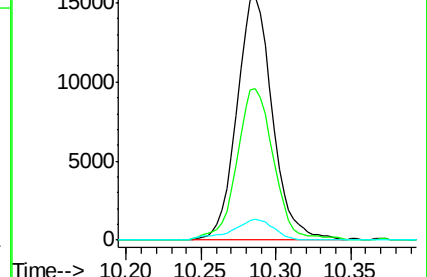
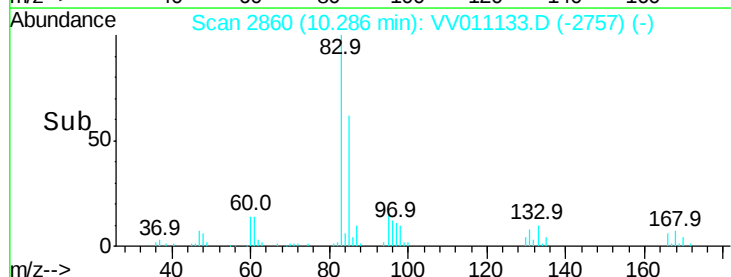
131 8.4 7.5 11.3

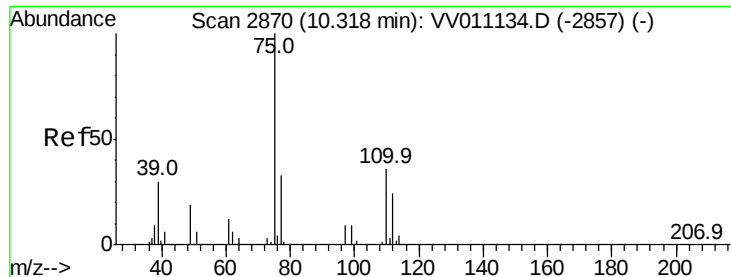


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 4.738 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

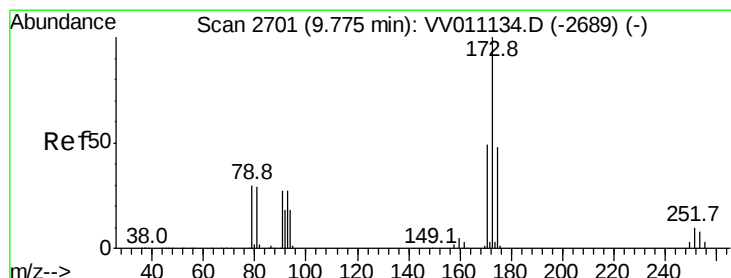
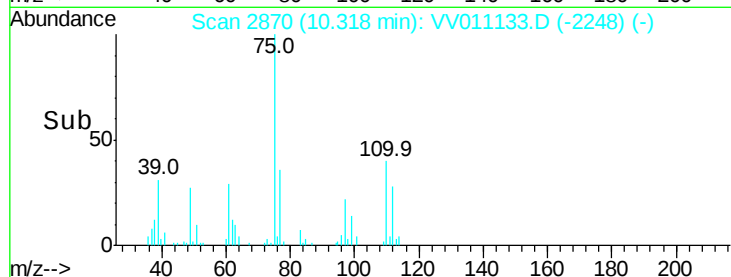
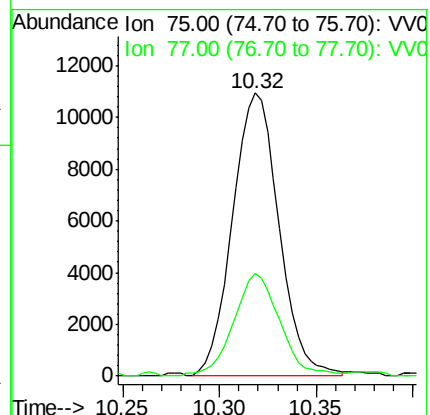
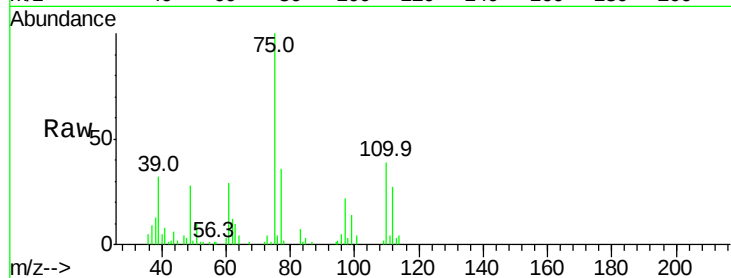
VSTD00568

Tgt Ion: 75 Resp: 18234

Ion Ratio Lower Upper

75 100

77 35.9 25.7 38.5



#62

Bromoform

Concen: 4.012 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

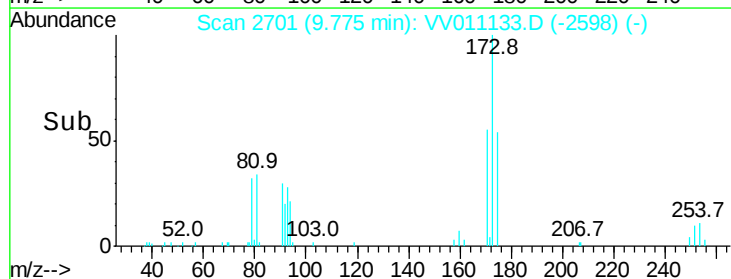
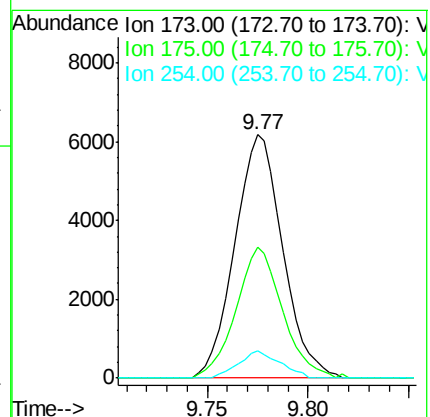
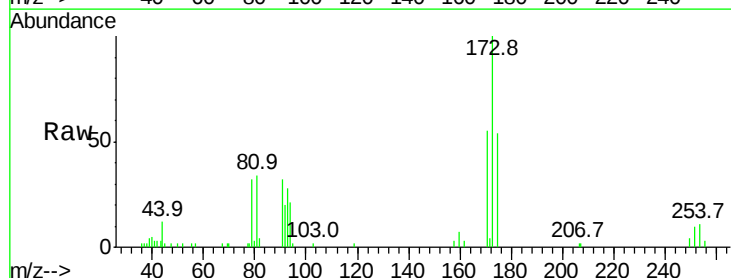
Tgt Ion: 173 Resp: 10240

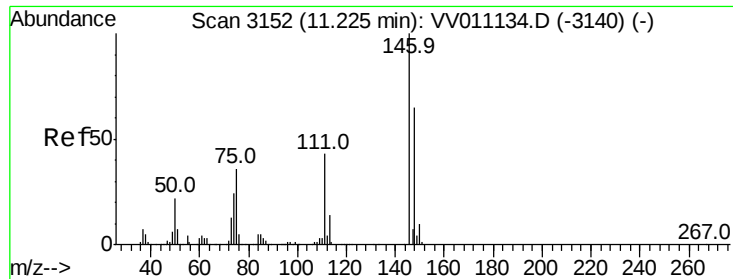
Ion Ratio Lower Upper

173 100

175 52.0 38.1 57.1

254 9.6 6.9 10.3

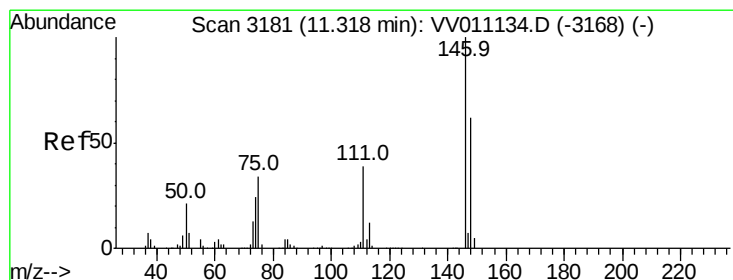
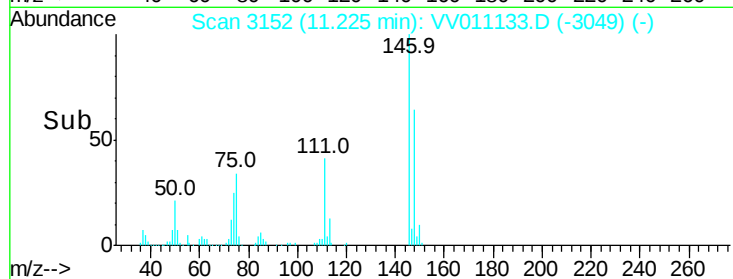
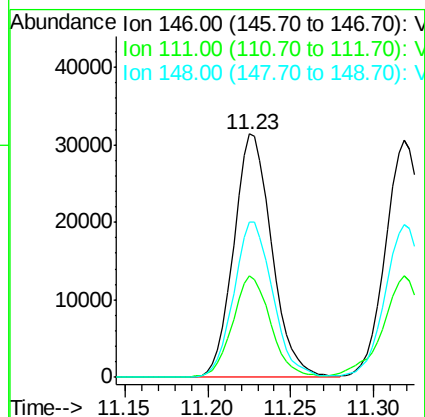
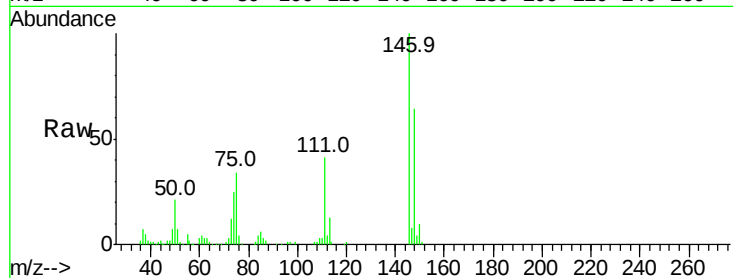




#63
 1,3-Dichlorobenzene
 Concen: 5.043 ug/L
 RT: 11.23 min Scan# 3152
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

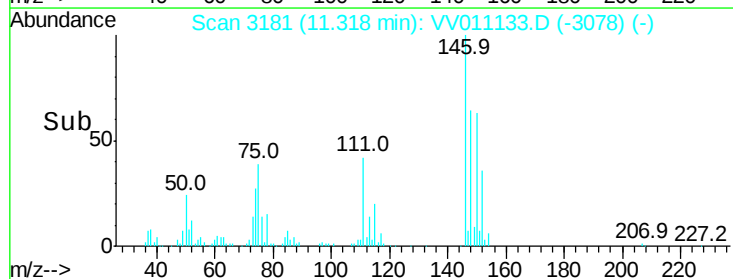
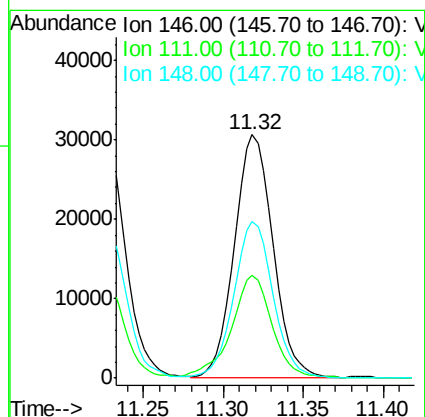
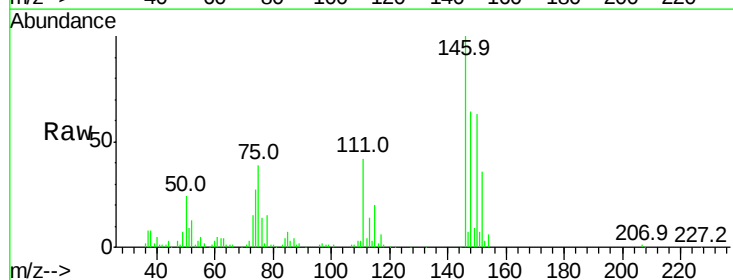
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

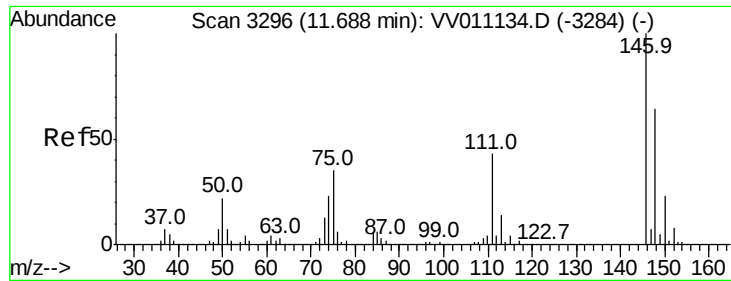
Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	29.9	55.5
148	63.5	45.4	84.2



#64
 1,4-Dichlorobenzene
 Concen: 5.041 ug/L
 RT: 11.32 min Scan# 3181
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.5	27.4	51.0
148	64.3	43.7	81.1





#65

1,2-Dichlorobenzene

Concen: 5.055 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

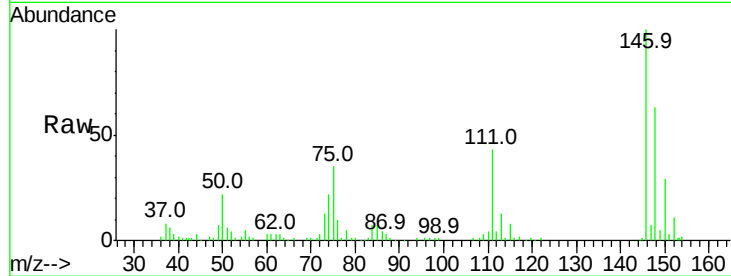
Tgt Ion:146 Resp: 47142

Ion Ratio Lower Upper

146 100

111 42.9 34.8 52.2

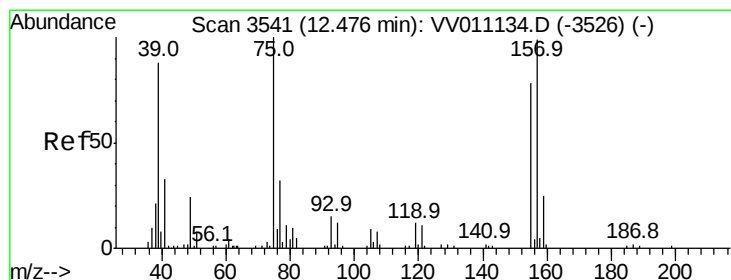
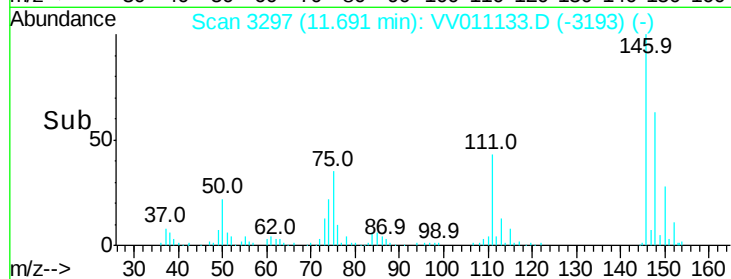
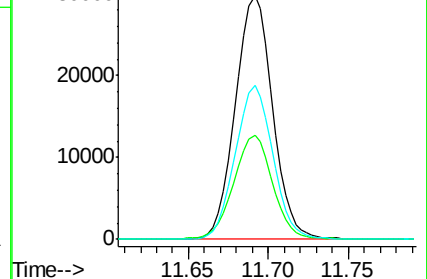
148 63.0 51.0 76.6



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



#66

1,2-Dibromo-3-chloropropane

Concen: 4.399 ug/L

RT: 12.48 min Scan# 3541

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

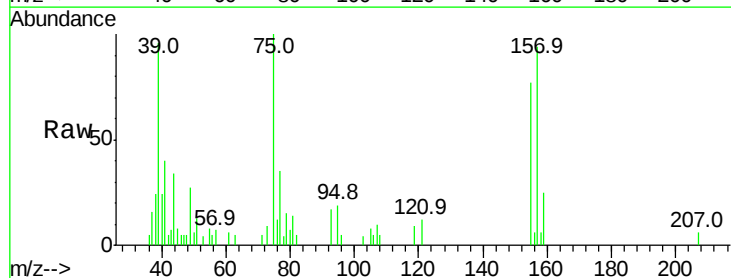
Tgt Ion: 75 Resp: 4188

Ion Ratio Lower Upper

75 100

157 94.1 79.6 119.4

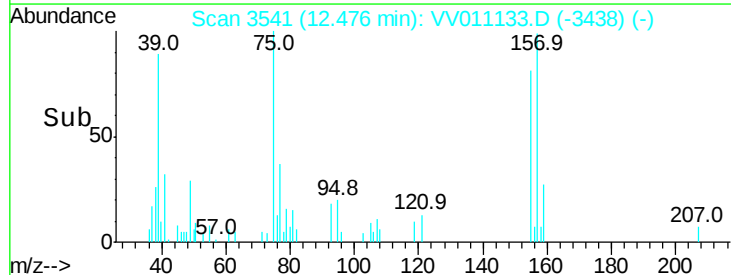
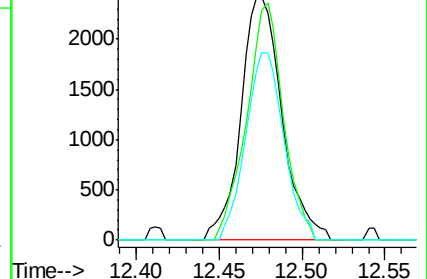
155 77.2 62.4 93.6

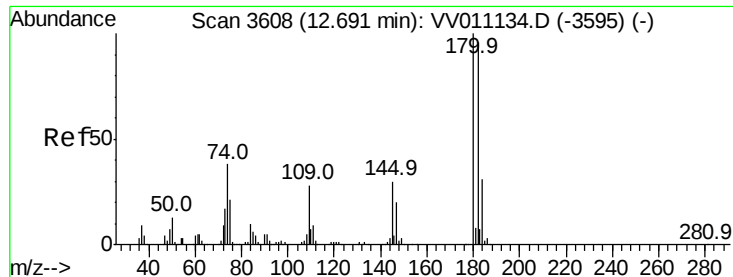


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

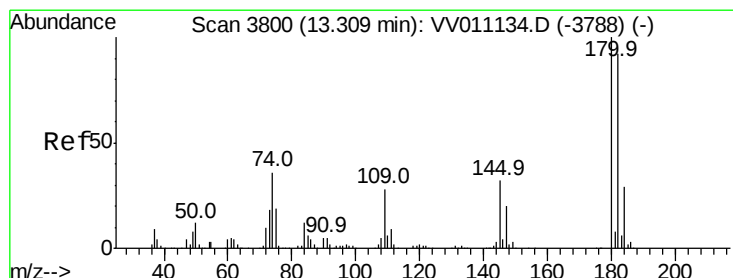
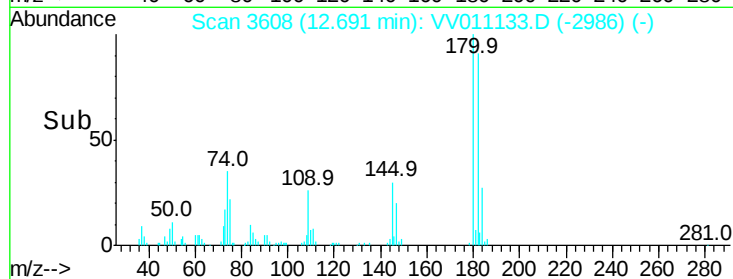
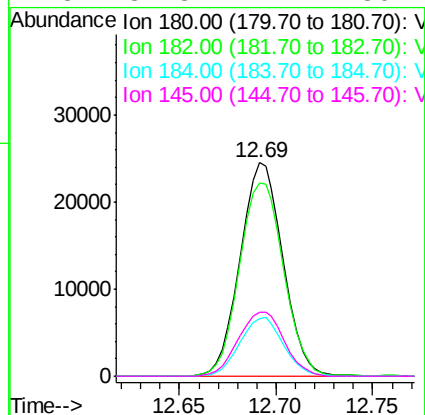
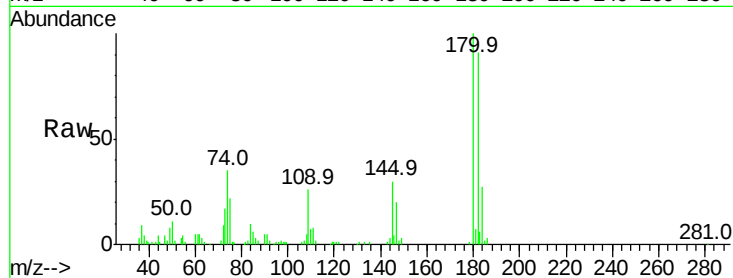




#67
 1,3,5-Trichlorobenzene
 Concen: 5.136 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

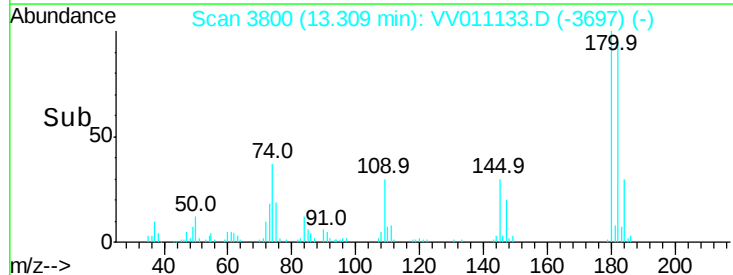
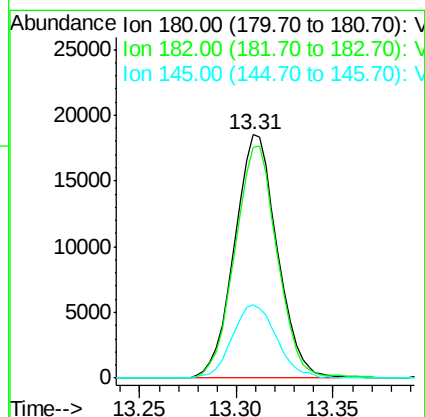
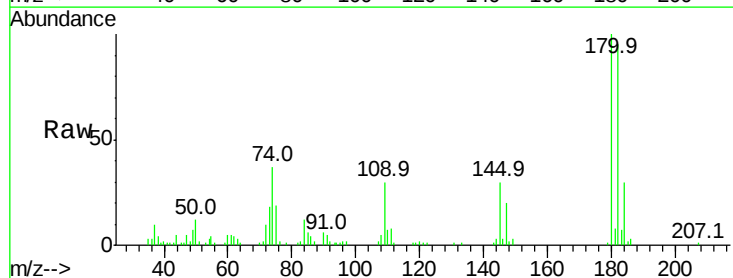
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00568

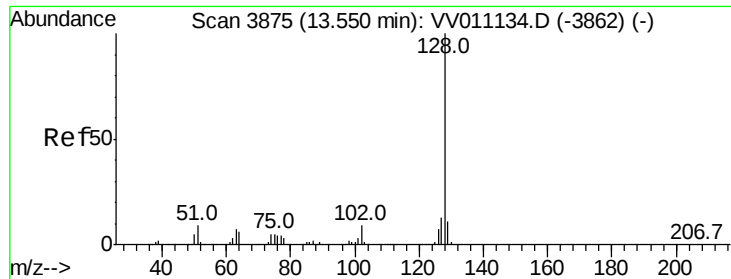
Tgt Ion:180 Resp: 37698
 Ion Ratio Lower Upper
 180 100
 182 94.0 75.3 112.9
 184 27.8 24.3 36.5
 145 32.3 24.2 36.4



#68
 1,2,4-trichlorobenzene
 Concen: 4.865 ug/L
 RT: 13.31 min Scan# 3800
 Delta R.T. -0.00 min
 Lab File: VV011133.D
 Acq: 30 May 2019 12:58

Tgt Ion:180 Resp: 28412
 Ion Ratio Lower Upper
 180 100
 182 94.2 75.4 113.0
 145 31.1 25.7 38.5





#69

Naphthalene

Concen: 4.066 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

Instrument :

MSVOA_V

ClientSampleId :

VSTD00568

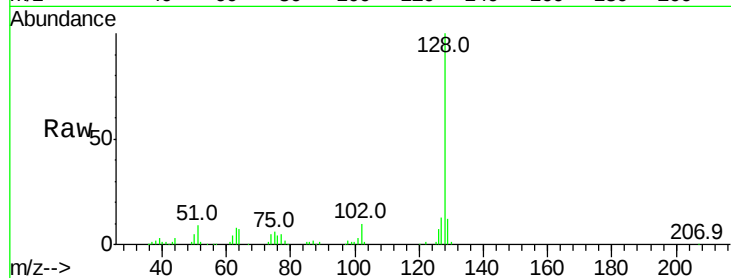
Tgt Ion:128 Resp: 48980

Ion Ratio Lower Upper

128 100

129 11.0 8.6 13.0

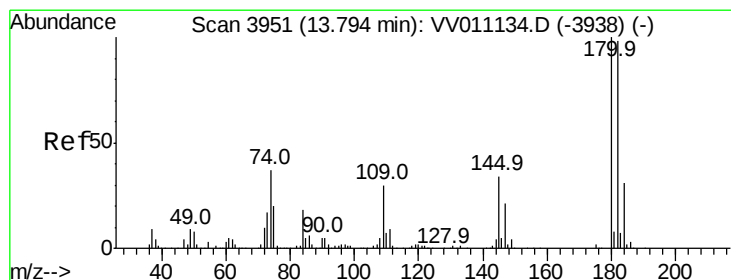
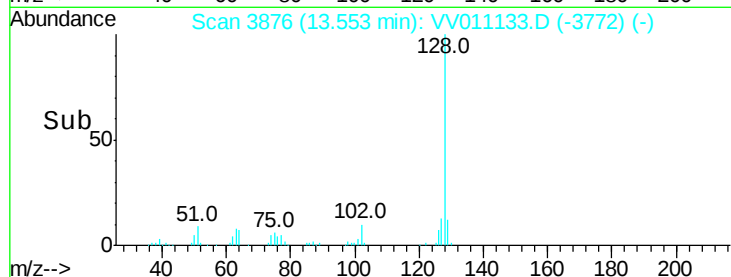
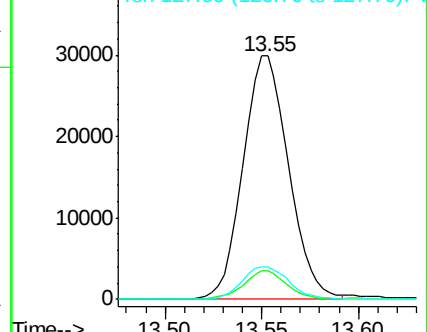
127 13.7 10.6 16.0



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: 4.891 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV011133.D

Acq: 30 May 2019 12:58

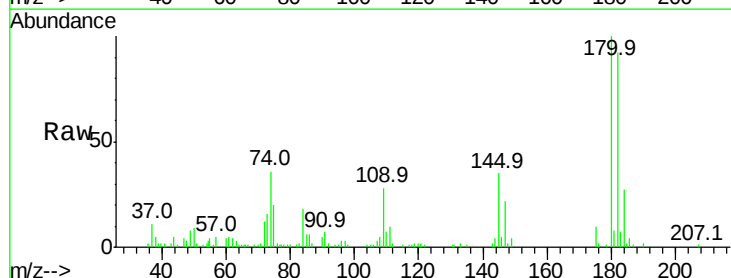
Tgt Ion:180 Resp: 26135

Ion Ratio Lower Upper

180 100

182 94.7 77.4 116.0

145 34.0 27.5 41.3



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

