

Data File : VV009683.D
Acq On : 15 Mar 2019 13:26
Operator : SY/MD
Sample : VSTDCCC025EC
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

Quant Time: Mar 15 14:24:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM031319S.M
Quant Title : VOC Analysis
QLast Update : Fri Mar 15 04:30:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	140025	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	134210	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	64451	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	42035	23.48	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	93.92%
7) Chloroethane-d5	1.57	69	41662	18.86	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	75.44%
10) 1,1-Dichloroethene-d2	2.13	63	115659	23.90	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	95.60%
20) 2-Butanone-d5	3.93	46	26585	56.69	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	113.38%
24) Chloroform-d	4.40	84	86885	24.34	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.36%
26) 1,2-Dichloroethane-d4	5.08	65	51146	25.32	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.28%
29) Benzene-d6	5.10	84	172365	24.48	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	97.92%
33) 1,2-Dichloropropane-d6	6.12	67	50129	24.37	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	97.48%
37) Toluene-d8	7.36	98	166547	24.45	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	97.80%
38) trans-1,3-Dichloropropene-	7.66	79	22136	23.42	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.68%
39) 2-Hexanone-d5	8.13	63	20053	52.94	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.88%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	51723	26.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	106.20%
61) 1,2-Dichlorobenzene-d4	11.67	152	59822	23.96	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	95.84%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	52790	24.367 ug/L	98
3) Chloromethane	1.25	50	47210	24.459 ug/L	100
5) Vinyl chloride	1.32	62	51092	24.636 ug/L	98
6) Bromomethane	1.51	94	55714	24.274 ug/L	99
8) Chloroethane	1.59	64	36817	20.673 ug/L	100
9) Trichlorofluoromethane	1.76	101	109857	24.971 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.14	101	59998	25.080 ug/L	98
12) 1,1-Dichloroethene	2.14	96	51581	24.576 ug/L	97
13) Acetone	2.19	43	32536	57.549 ug/L	99
14) Carbon disulfide	2.32	76	129016	24.547 ug/L	99
15) Methyl Acetate	2.46	43	21731	26.345 ug/L	97
16) Methylene chloride	2.53	84	50020	24.539 ug/L	99
17) Methyl tert-butyl Ether	2.80	73	104852	24.051 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	46388	25.357 ug/L	98
19) 1,1-Dichloroethane	3.23	63	80453	25.197 ug/L	98
21) 2-Butanone	4.01	43	35045	50.210 ug/L	90
22) cis-1,2-Dichloroethene	3.96	96	50273	24.523 ug/L	97

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Quant Title : VOC Analysis
QLast Update : Fri Mar 15 04:30:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	22810	24.068	ug/L	96
25) Chloroform	4.42	83	93894	25.808	ug/L	96
27) 1,2-Dichloroethane	5.18	62	61868	24.628	ug/L	100
30) Cyclohexane	4.72	56	75010	24.739	ug/L	99
31) 1,1,1-Trichloroethane	4.66	97	80284	25.545	ug/L	98
32) Carbon tetrachloride	4.87	117	69756	26.194	ug/L	98
34) Benzene	5.14	78	190858	25.085	ug/L	100
35) Trichloroethene	5.96	95	53065	25.117	ug/L	98
36) Methylcyclohexane	6.18	83	86271	24.591	ug/L	99
40) 1,2-Dichloropropane	6.22	63	44939	24.311	ug/L	99
41) Bromodichloromethane	6.55	83	63009	24.774	ug/L	100
42) cis-1,3-Dichloropropene	7.07	75	72194	25.723	ug/L	99
43) 4-Methyl-2-pentanone	7.27	43	64487	51.017	ug/L	97
44) Toluene	7.43	91	214864	25.354	ug/L	100
45) trans-1,3-Dichloropropene	7.69	75	60028	24.768	ug/L	100
46) 1,1,2-Trichloroethane	7.88	97	38317	24.809	ug/L	97
47) Tetrachloroethene	8.02	164	41006	24.571	ug/L	97
49) 2-Hexanone	8.18	43	48645	51.242	ug/L	98
50) Dibromochloromethane	8.29	129	44931	25.651	ug/L	98
51) 1,2-Dibromoethane	8.40	107	39314	25.699	ug/L #	99
52) Chlorobenzene	8.93	112	137245	24.890	ug/L	99
53) Ethylbenzene	9.05	91	241056	25.718	ug/L	99
54) m,p-Xylene	9.18	106	91487	25.858	ug/L	97
55) o-xylene	9.59	106	89603	25.805	ug/L	98
56) Styrene	9.60	104	148018	26.136	ug/L	100
57) Isopropylbenzene	9.98	105	241347	26.207	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	53013	26.472	ug/L	97
59) 1,2,3-Trichloropropane	10.32	75	37937	26.388	ug/L	98
62) Bromoform	9.77	173	25412	25.803	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	103259	24.553	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	100859	23.561	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	96079	24.554	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.48	75	7690	26.545	ug/L	98
67) 1,3,5-Trichlorobenzene	12.69	180	73400	25.062	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	53410	25.726	ug/L	96
69) Naphthalene	13.55	128	82128	23.950	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	47869	25.073	ug/L	98

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

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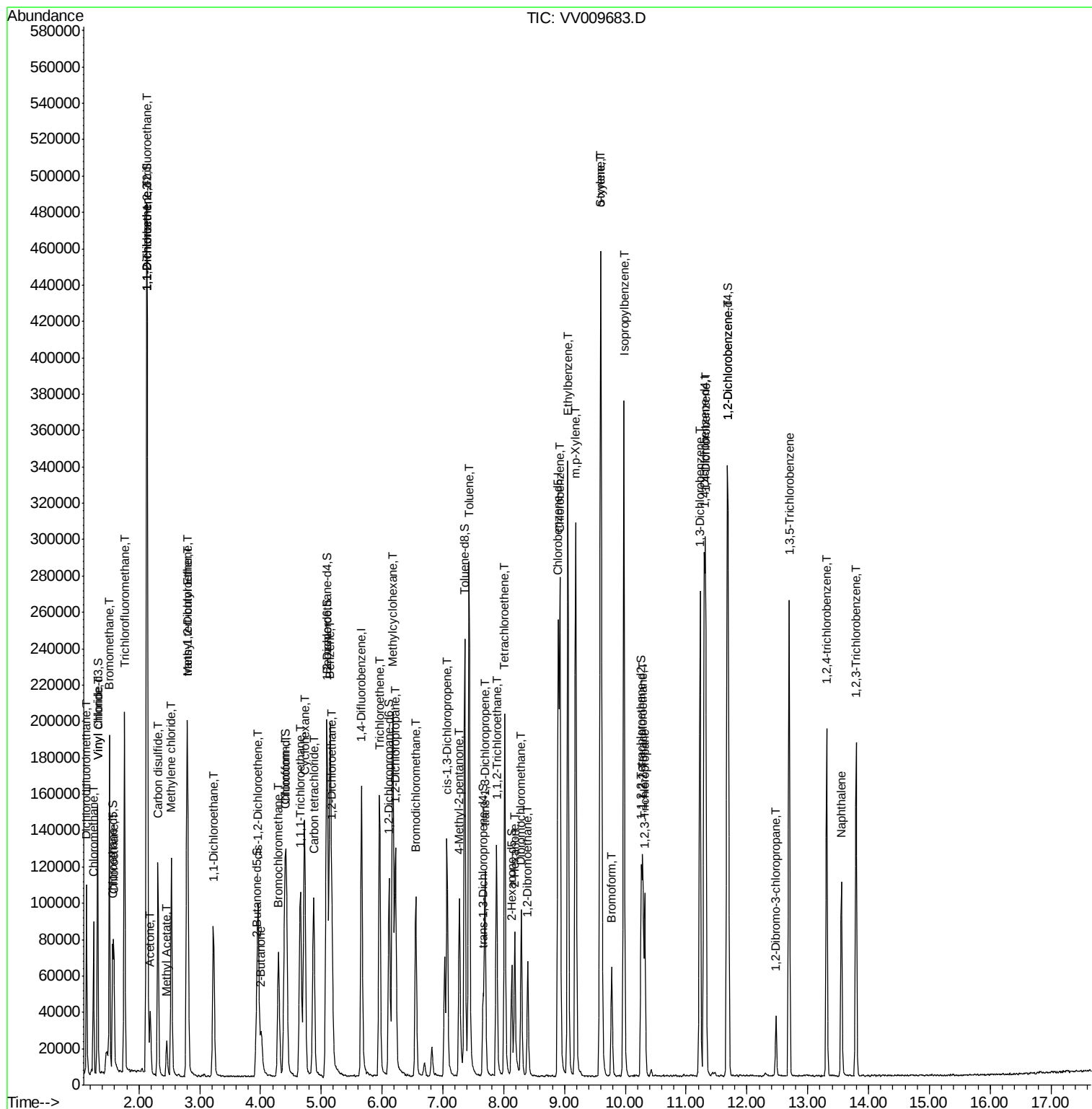
Quant Time: Mar 15 14:24:53 2019

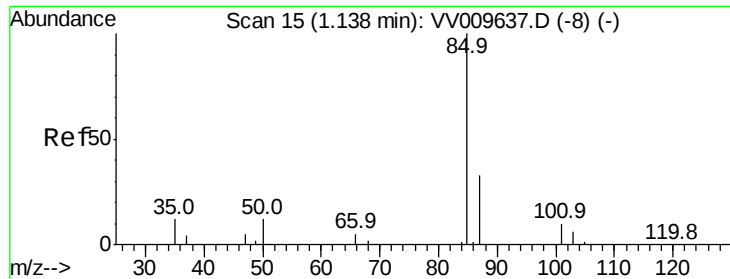
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM031319S.M

Quant Title : VOC Analysis

QLast Update : Fri Mar 15 04:30:02 2019

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 24.367 ug/L

RT: 1.14 min Scan# 15

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

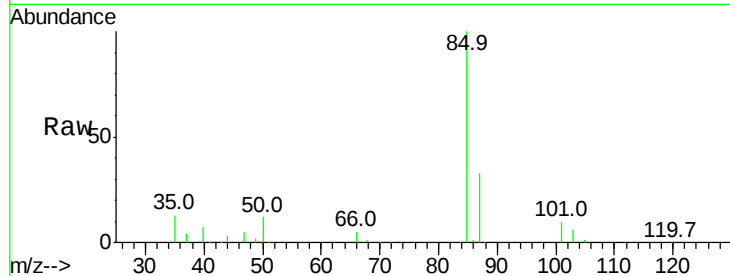
VSTD02563

Tgt Ion: 85 Resp: 52790

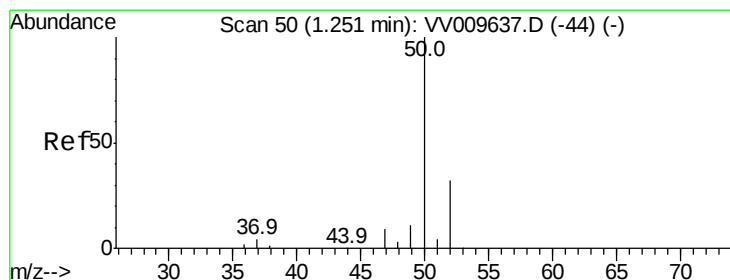
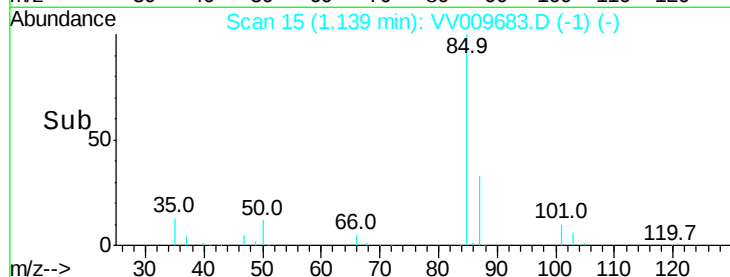
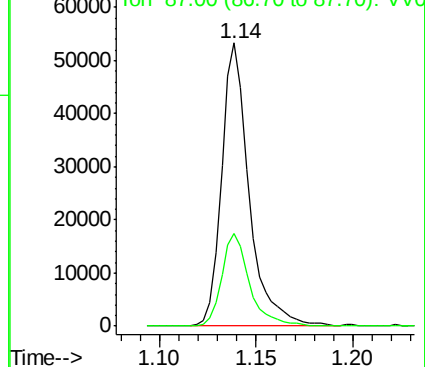
Ion Ratio Lower Upper

85 100

87 33.0 22.4 41.6



Abundance Ion 85.00 (84.70 to 85.70): VV009683.D (-1) (-)



#3

Chloromethane

Concen: 24.459 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009683.D

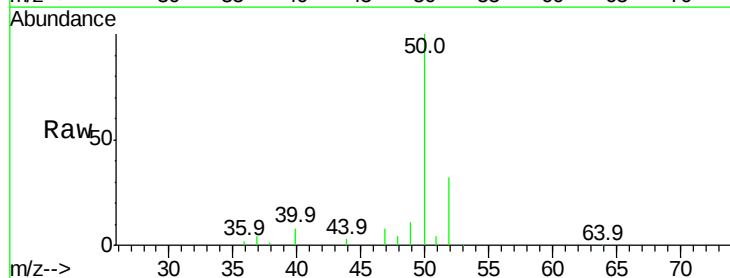
Acq: 15 Mar 2019 13:26

Tgt Ion: 50 Resp: 47210

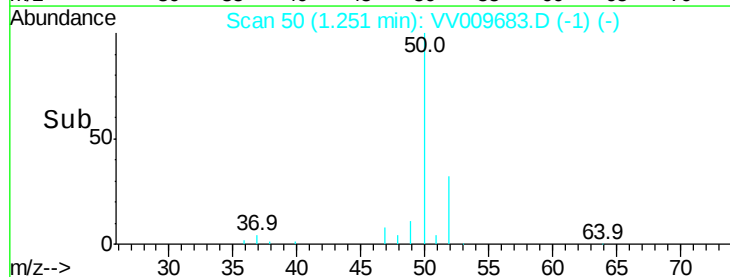
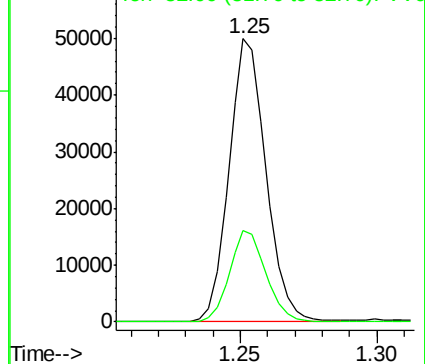
Ion Ratio Lower Upper

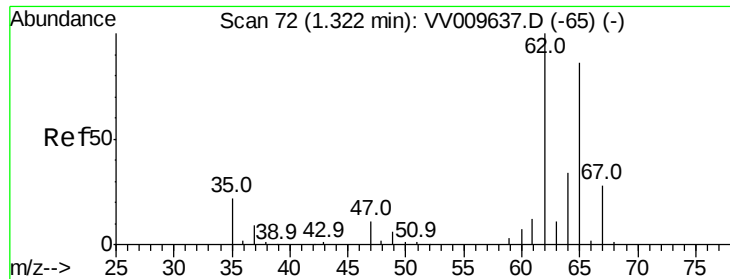
50 100

52 32.5 22.9 42.5



Abundance Ion 50.00 (49.70 to 50.70): VV009683.D (-1) (-)





#5

Vinyl chloride

Concen: 24.636 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

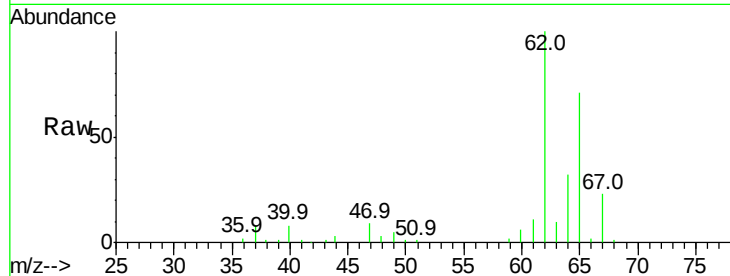
VSTD02563

Tgt Ion: 62 Resp: 51092

Ion Ratio Lower Upper

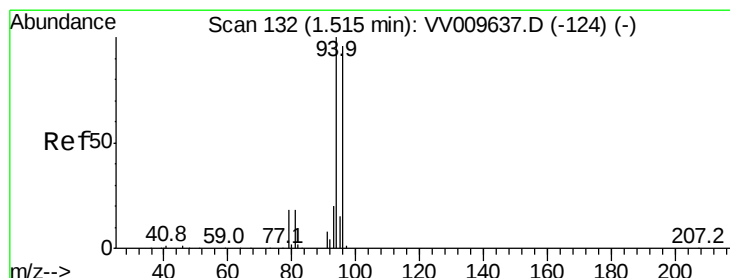
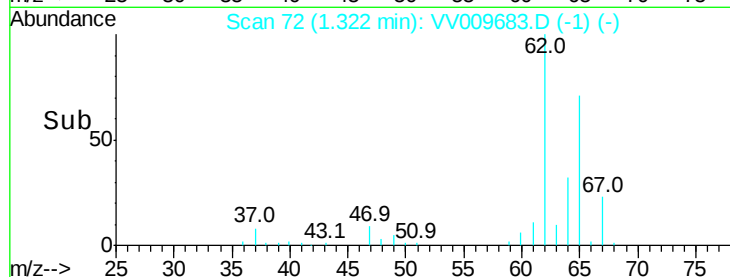
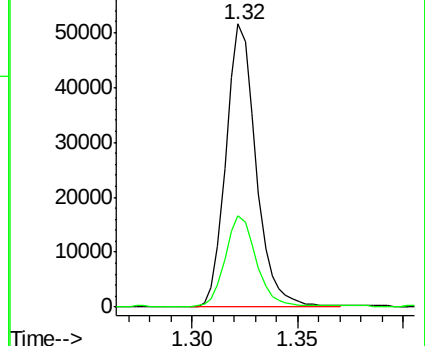
62 100

64 32.3 23.6 43.8



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 24.274 ug/L

RT: 1.51 min Scan# 132

Delta R.T. -0.00 min

Lab File: VV009683.D

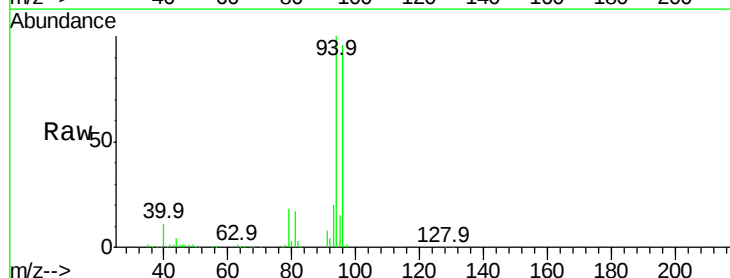
Acq: 15 Mar 2019 13:26

Tgt Ion: 94 Resp: 55714

Ion Ratio Lower Upper

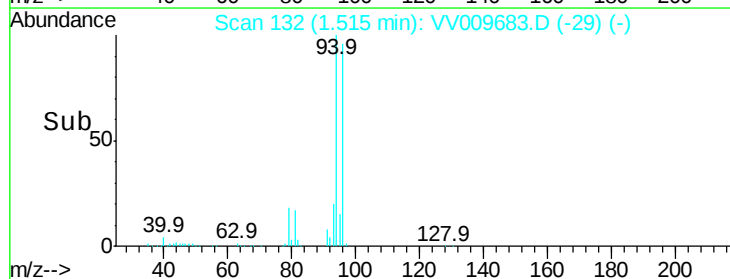
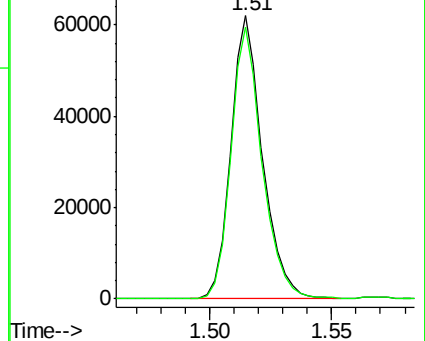
94 100

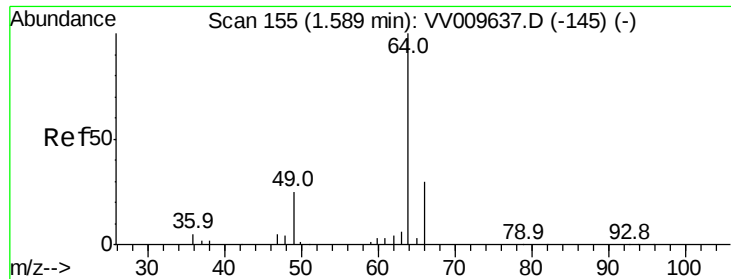
96 95.1 9.4 178.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

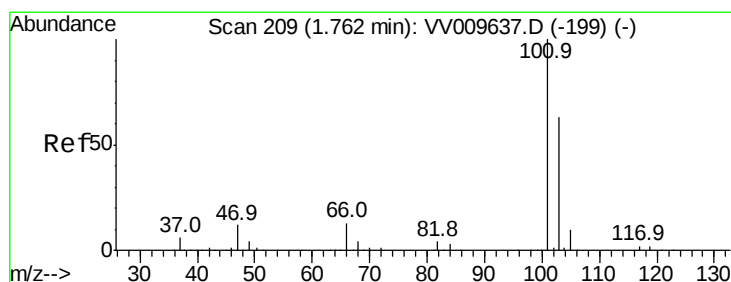
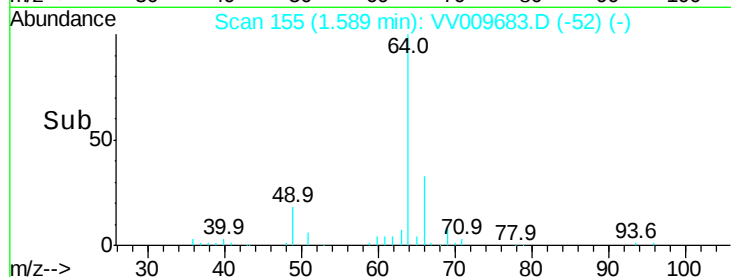
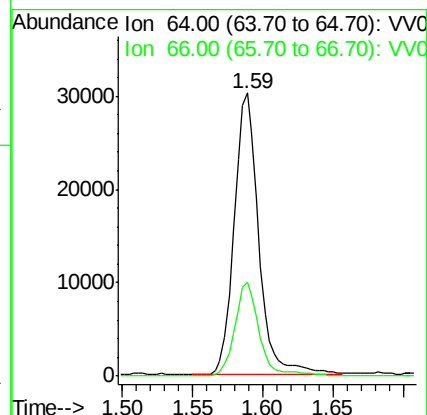
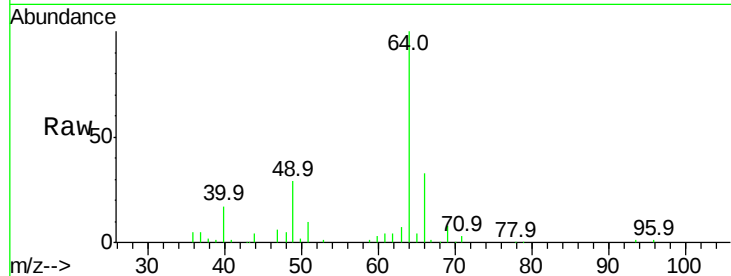




#8
Chloroethane
Concen: 20.673 ug/L
RT: 1.59 min Scan# 155
Delta R.T. -0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

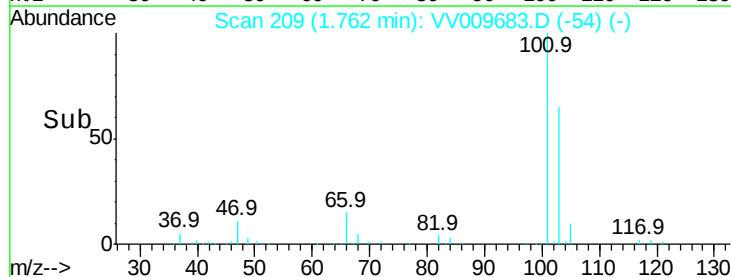
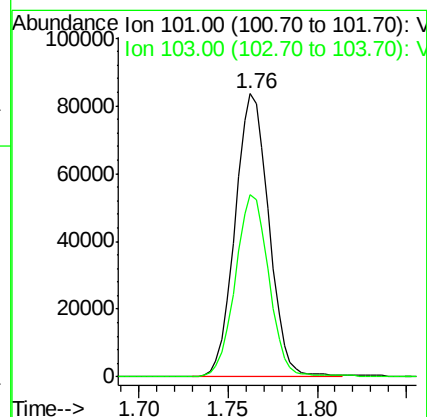
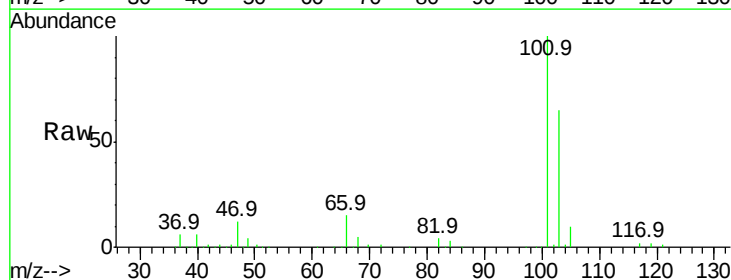
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

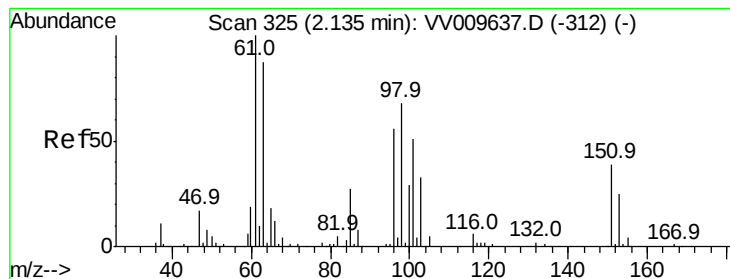
Tgt Ion: 64 Resp: 36817
Ion Ratio Lower Upper
64 100
66 33.2 23.0 42.8



#9
Trichlorofluoromethane
Concen: 24.971 ug/L
RT: 1.76 min Scan# 209
Delta R.T. -0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

Tgt Ion: 101 Resp: 109857
Ion Ratio Lower Upper
101 100
103 63.8 45.4 84.2





#11

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

Concen: 25.080 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

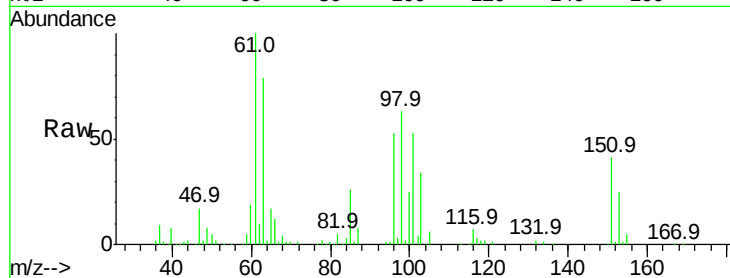
Tgt Ion:101 Resp: 59998

Ion Ratio Lower Upper

101 100

85 47.3 38.7 58.1

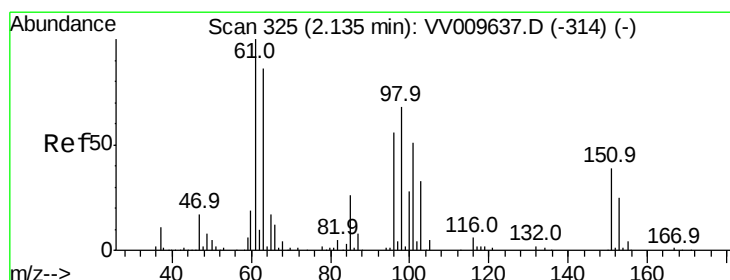
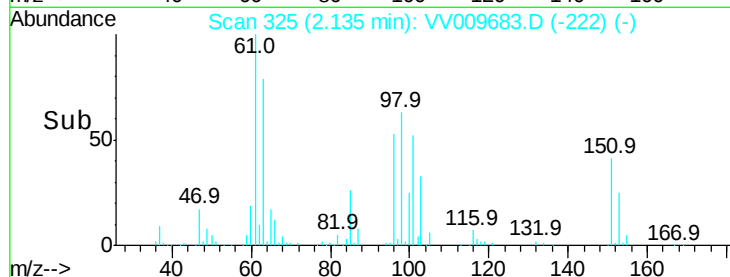
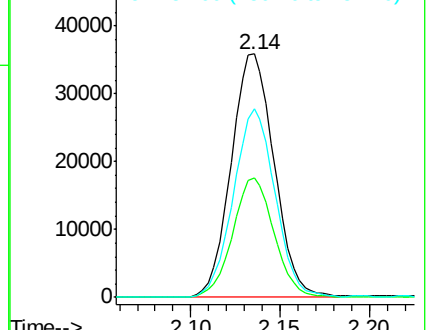
151 75.2 58.5 87.7



Abundance Ion 101.00 (100.70 to 101.70): VV009683.D (-222) (-)

Ion 85.00 (84.70 to 85.70): VV009683.D (-222) (-)

Ion 151.00 (150.70 to 151.70): VV009683.D (-222) (-)



#12

1,1-Dichloroethene

Concen: 24.576 ug/L

RT: 2.14 min Scan# 325

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

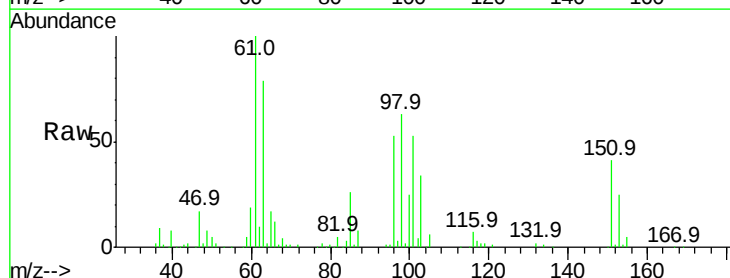
Tgt Ion: 96 Resp: 51581

Ion Ratio Lower Upper

96 100

61 187.0 128.4 238.5

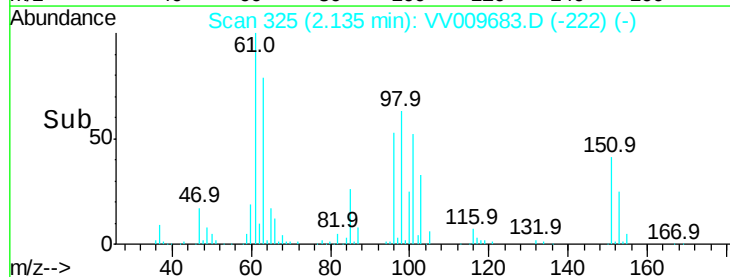
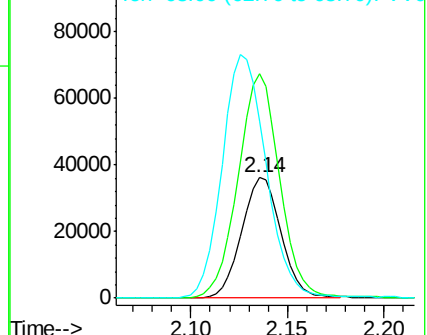
63 147.6 100.7 186.9

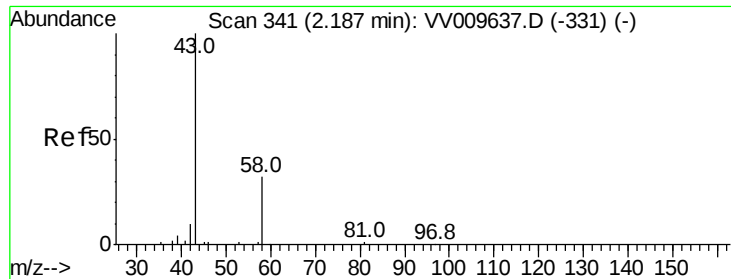


Abundance Ion 96.00 (95.70 to 96.70): VV009683.D (-222) (-)

Ion 61.00 (60.70 to 61.70): VV009683.D (-222) (-)

Ion 63.00 (62.70 to 63.70): VV009683.D (-222) (-)





#13

Acetone

Concen: 57.549 ug/L

RT: 2.19 min Scan# 341

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

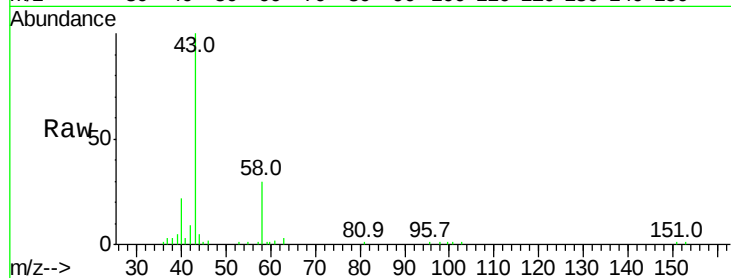
VSTD02563

Tgt Ion: 43 Resp: 32536

Ion Ratio Lower Upper

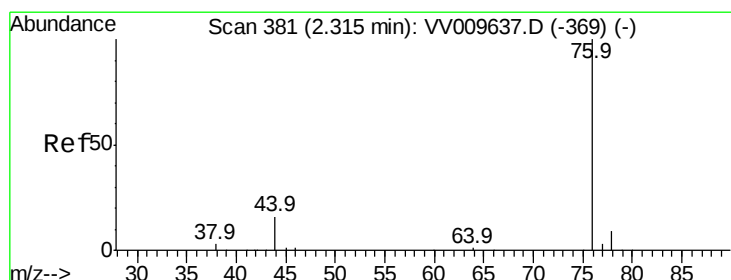
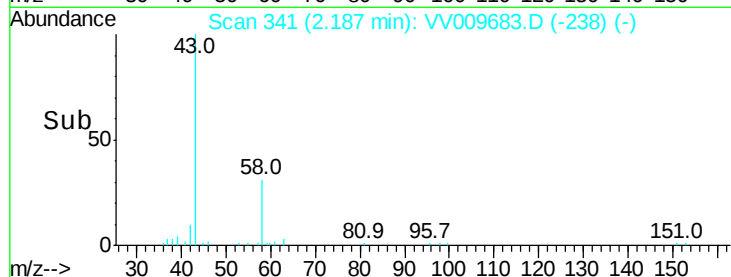
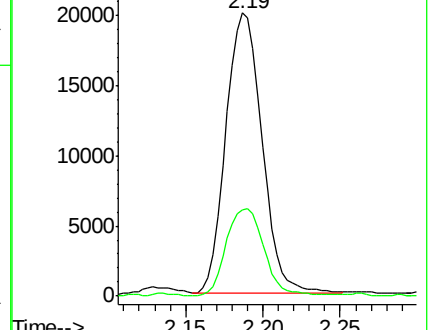
43 100

58 32.8 0.0 64.8



Abundance Ion 43.00 (42.70 to 43.70): VV009683.D (-238) (-)

Ion 58.00 (57.70 to 58.70): VV009683.D (-238) (-)



#14

Carbon disulfide

Concen: 24.547 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV009683.D

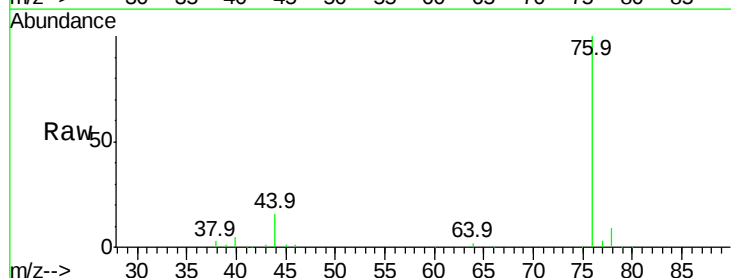
Acq: 15 Mar 2019 13:26

Tgt Ion: 76 Resp: 129016

Ion Ratio Lower Upper

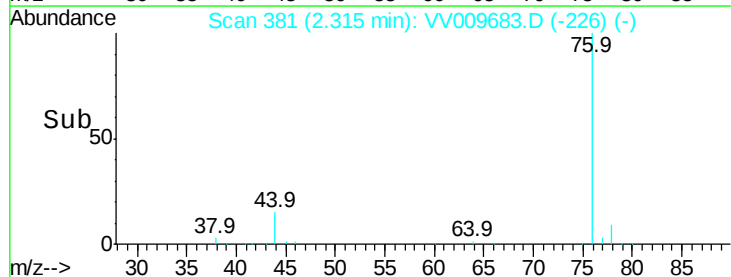
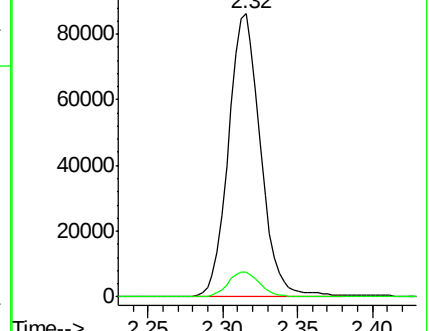
76 100

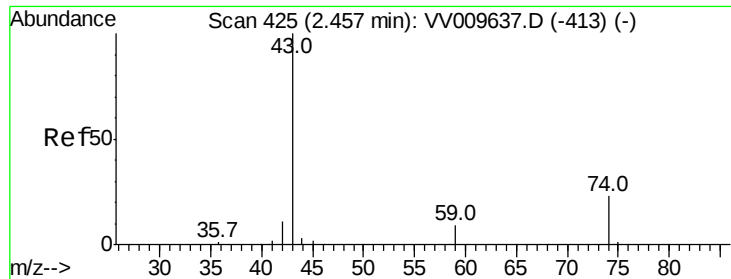
78 8.7 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VV009683.D (-226) (-)

Ion 78.00 (77.70 to 78.70): VV009683.D (-226) (-)





#15

Methyl Acetate

Concen: 26.345 ug/L

RT: 2.46 min Scan# 425

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampled :

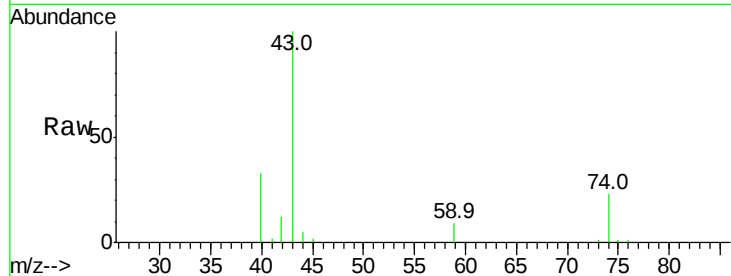
VSTD02563

Tgt Ion: 43 Resp: 21731

Ion Ratio Lower Upper

43 100

74 23.4 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

15000

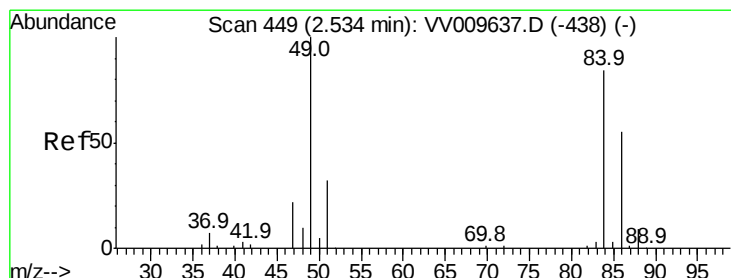
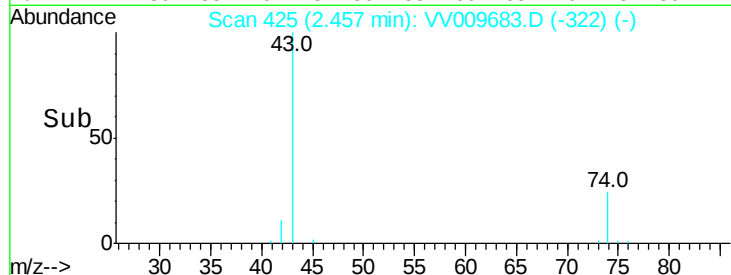
10000

5000

0

2.40 2.45 2.50

Time-->



#16

Methylene chloride

Concen: 24.539 ug/L

RT: 2.53 min Scan# 449

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

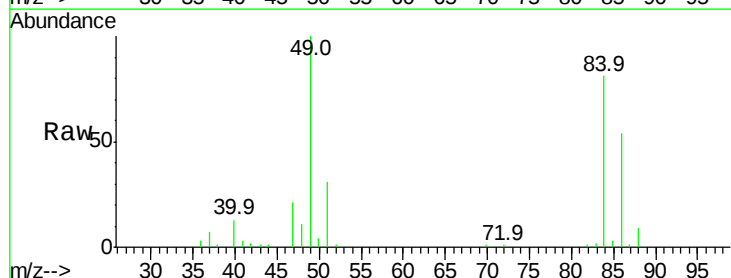
Tgt Ion: 84 Resp: 50020

Ion Ratio Lower Upper

84 100

49 123.2 86.1 159.9

86 66.6 45.2 84.0



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

40000

30000

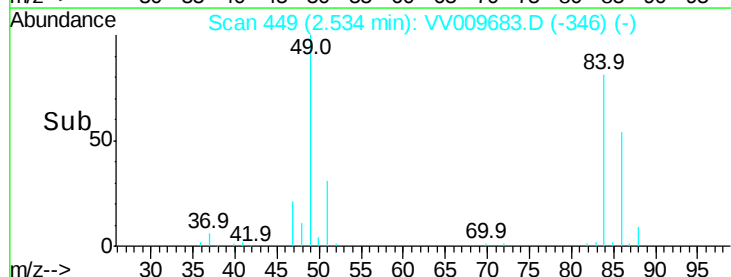
20000

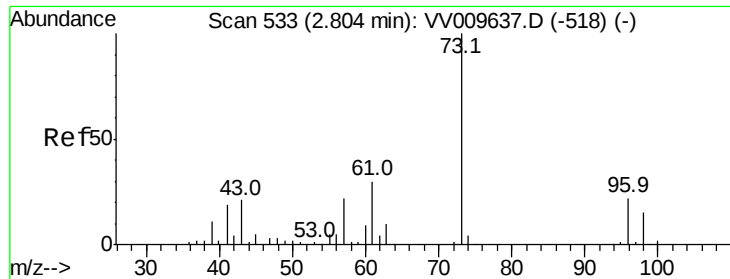
10000

0

2.45 2.50 2.55 2.60

Time-->

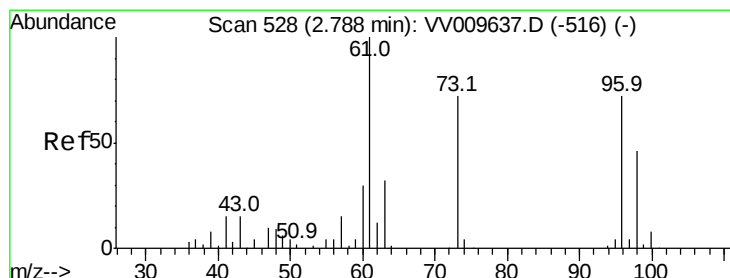
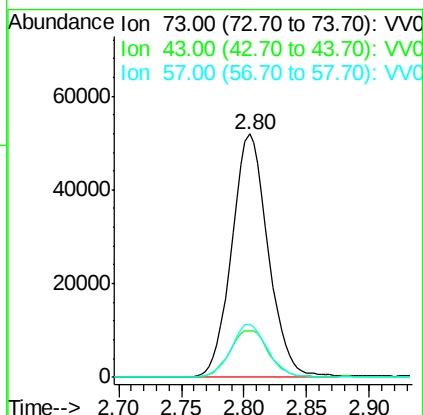
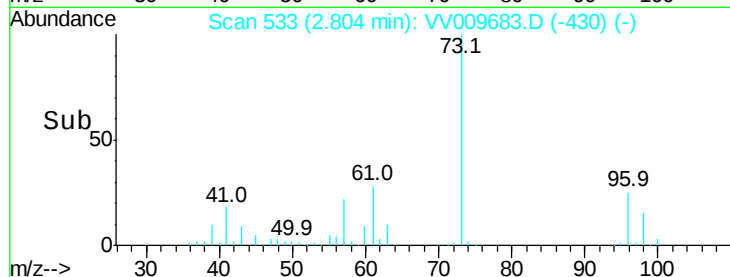
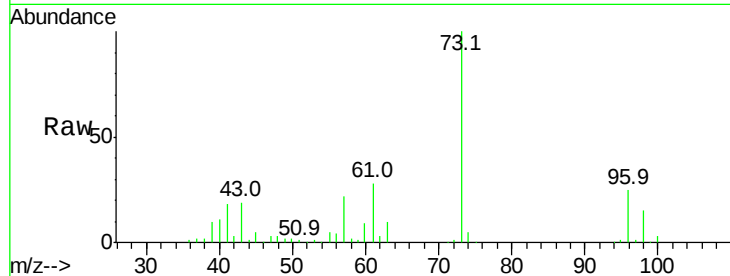




#17
Methyl tert-butyl Ether
Concen: 24.051 ug/L
RT: 2.80 min Scan# 533
Delta R.T. -0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

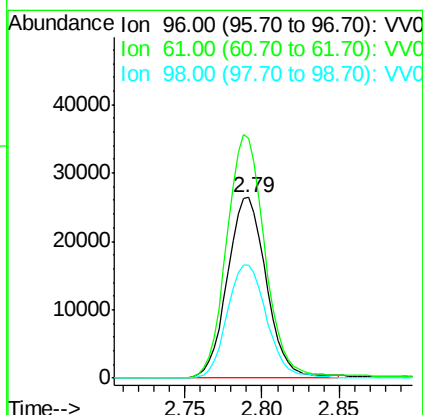
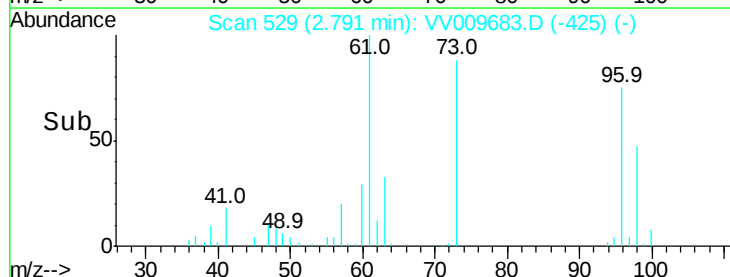
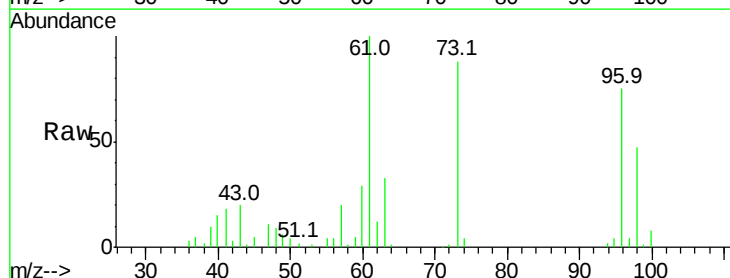
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

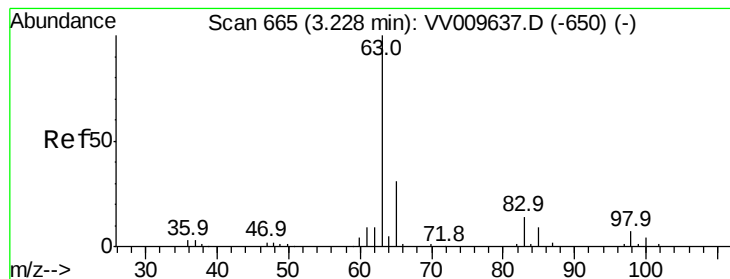
Tgt Ion: 73 Resp: 104852
Ion Ratio Lower Upper
73 100
43 20.8 16.3 24.5
57 21.8 16.7 25.1



#18
trans-1,2-Dichloroethene
Concen: 25.357 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

Tgt Ion: 96 Resp: 46388
Ion Ratio Lower Upper
96 100
61 132.8 94.4 175.2
98 62.5 45.4 84.4





#19

1,1-Dichloroethane

Concen: 25.197 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

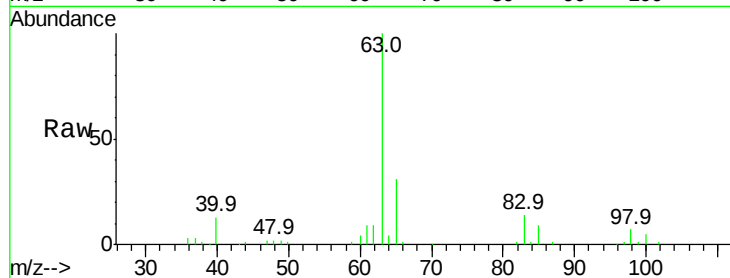
Tgt Ion: 63 Resp: 80453

Ion Ratio Lower Upper

63 100

65 31.3 20.9 38.9

83 14.2 10.4 19.4



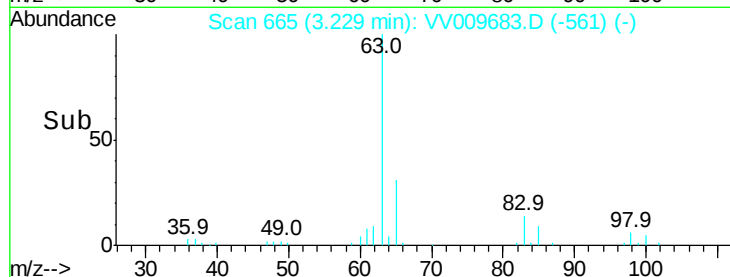
Abundance Ion 63.00 (62.70 to 63.70): VV009683.D (-650) (-)

Ion 65.00 (64.70 to 65.70): VV009683.D (-650) (-)

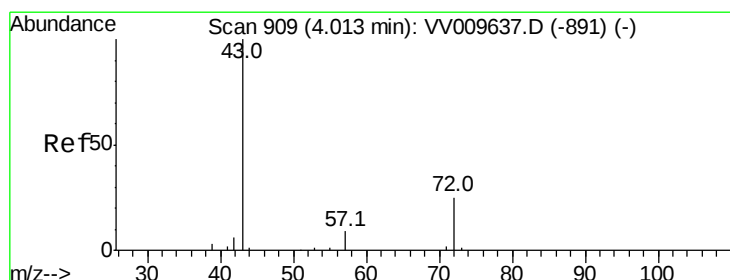
Ion 83.00 (82.70 to 83.70): VV009683.D (-650) (-)

3.23

Time-->



Time-->



#21

2-Butanone

Concen: 50.210 ug/L

RT: 4.01 min Scan# 909

Delta R.T. -0.00 min

Lab File: VV009683.D

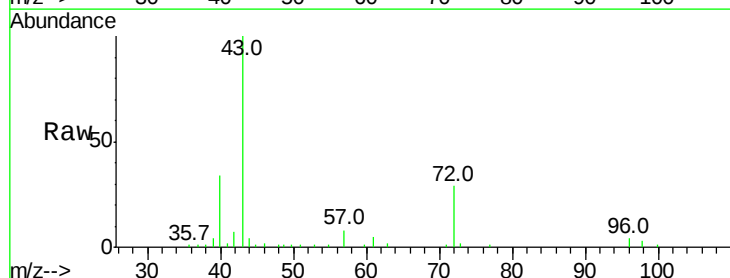
Acq: 15 Mar 2019 13:26

Tgt Ion: 43 Resp: 35045

Ion Ratio Lower Upper

43 100

72 23.5 14.5 43.5

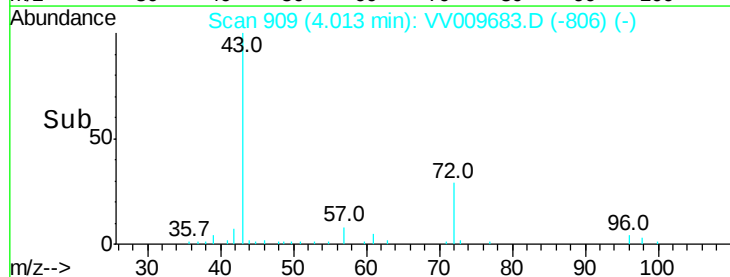


Abundance Ion 43.00 (42.70 to 43.70): VV009683.D (-806) (-)

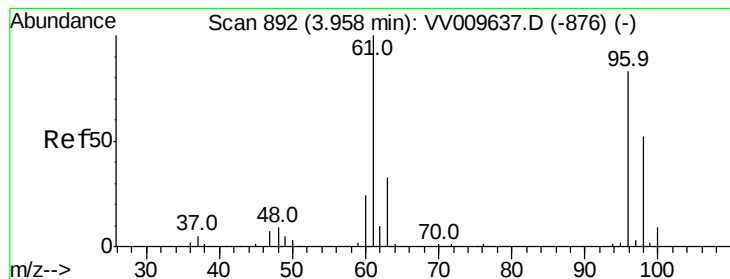
Ion 72.00 (71.70 to 72.70): VV009683.D (-806) (-)

4.01

Time-->



Time-->

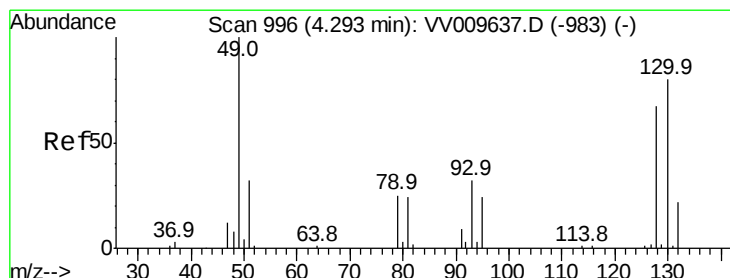
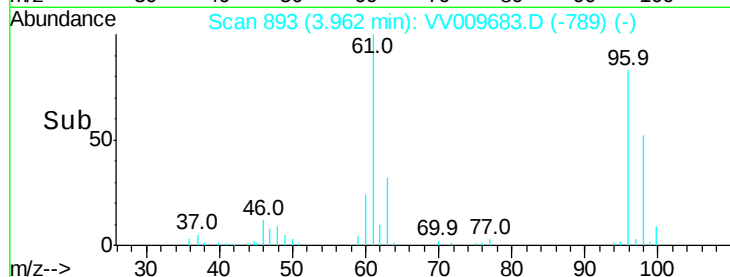
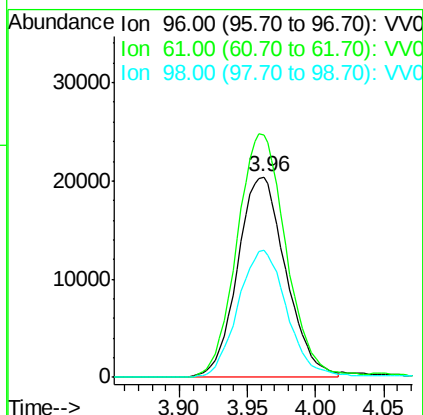
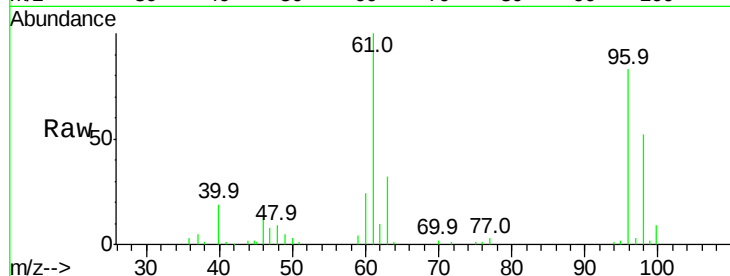


#22

cis-1,2-Dichloroethene
 Concen: 24.523 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

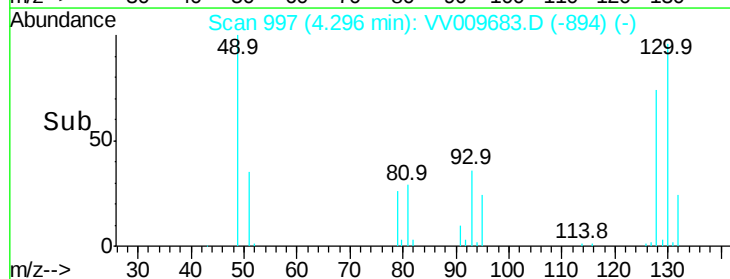
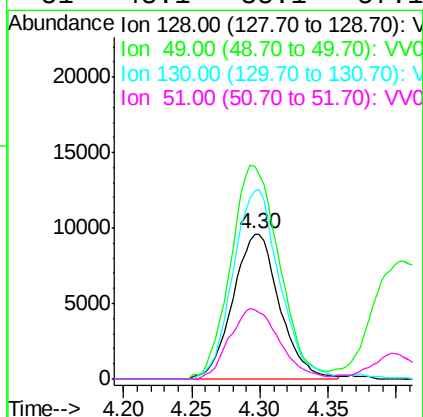
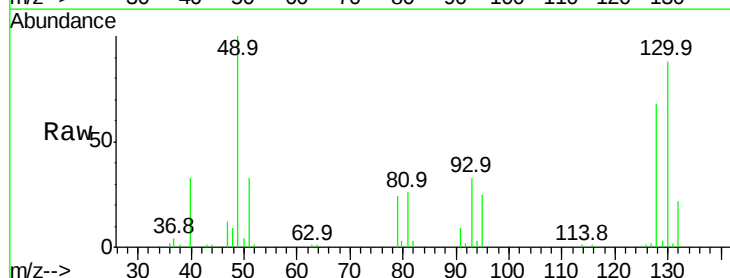
Tgt Ion: 96 Resp: 50273
 Ion Ratio Lower Upper
 96 100
 61 121.2 86.2 160.0
 98 63.2 46.5 86.3

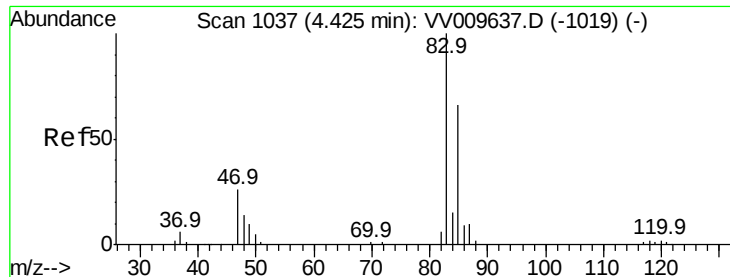


#23

Bromochloromethane
 Concen: 24.068 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Tgt Ion: 128 Resp: 22810
 Ion Ratio Lower Upper
 128 100
 49 147.0 110.0 204.2
 130 129.8 90.4 168.0
 51 48.1 38.1 57.1





#25

Chloroform

Concen: 25.808 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

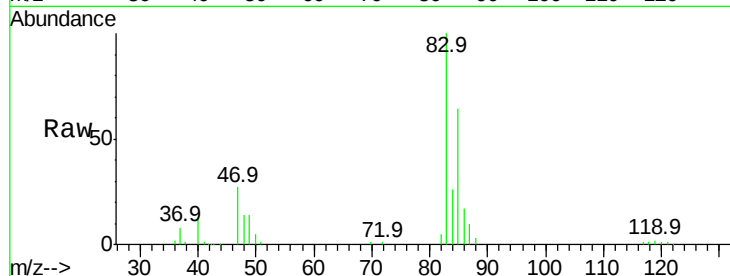
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

Tgt Ion: 83 Resp: 93894

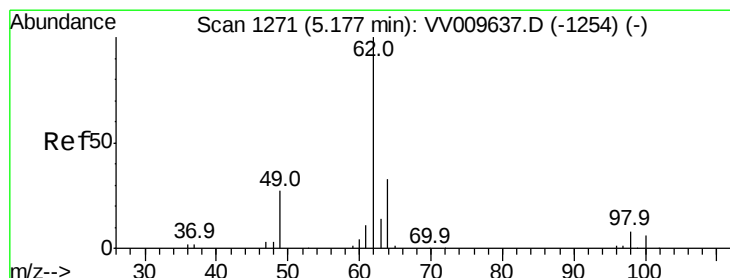
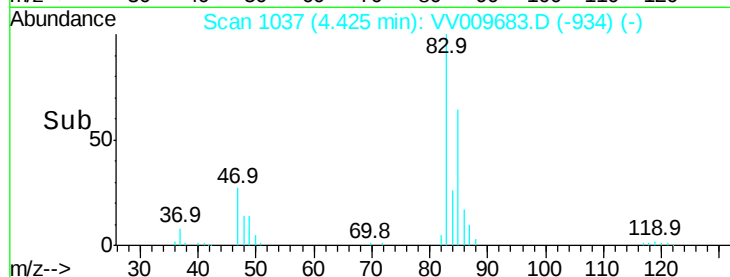
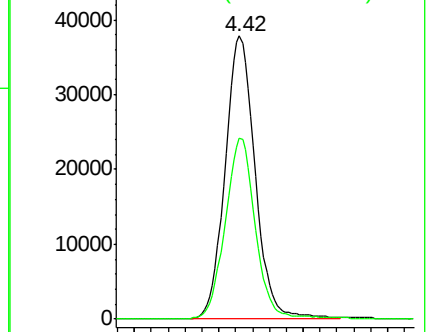
Ion Ratio Lower Upper

83 100

85 63.0 46.4 86.2



Abundance Ion 83.00 (82.70 to 83.70): VV009683.D (-934) (-)



#27

1,2-Dichloroethane

Concen: 24.628 ug/L

RT: 5.18 min Scan# 1271

Delta R.T. -0.00 min

Lab File: VV009683.D

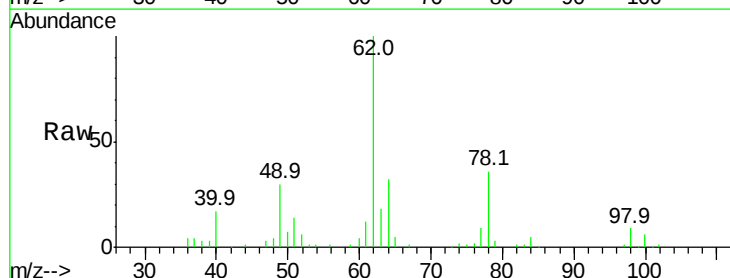
Acq: 15 Mar 2019 13:26

Tgt Ion: 62 Resp: 61868

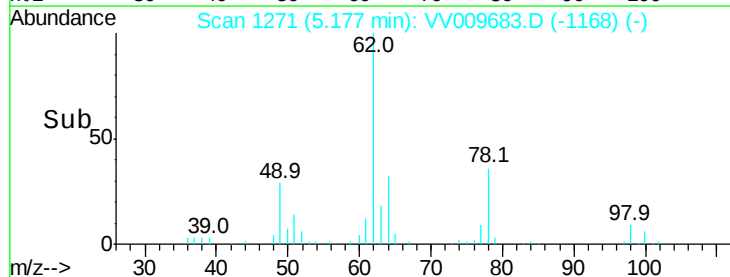
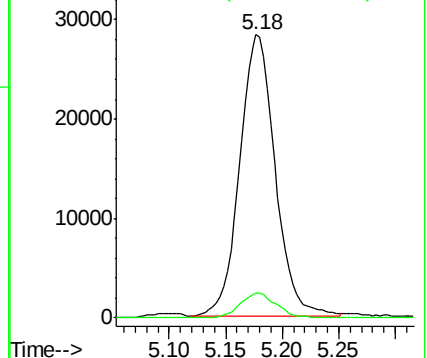
Ion Ratio Lower Upper

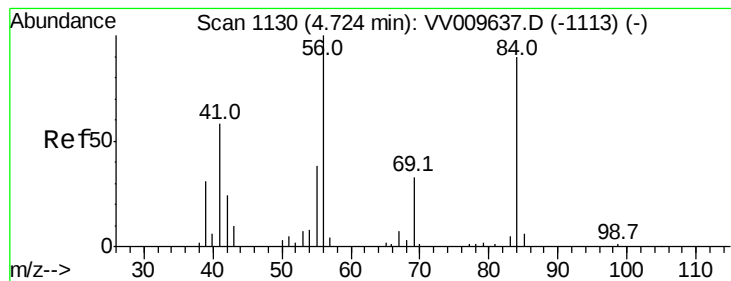
62 100

98 8.9 7.2 10.8



Abundance Ion 62.00 (61.70 to 62.70): VV009683.D (-1168) (-)





#30

Cyclohexane

Concen: 24.739 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

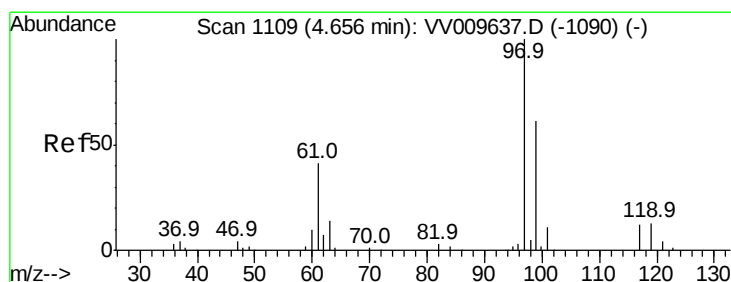
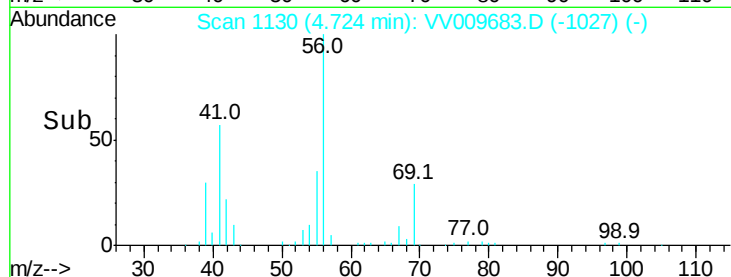
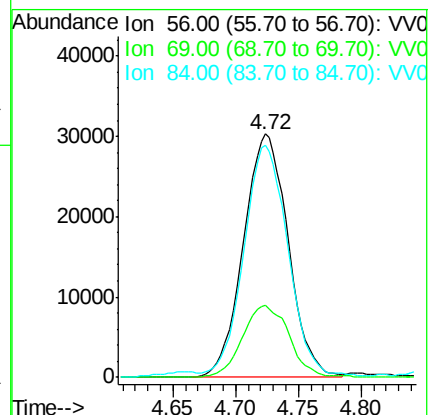
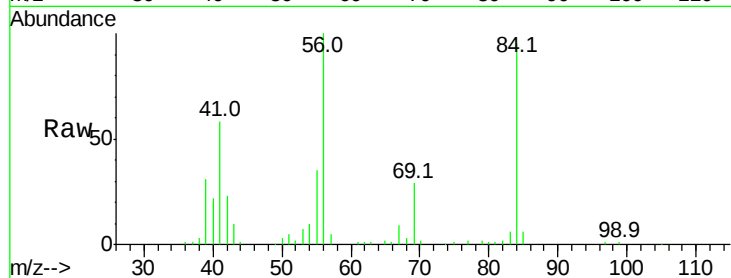
Tgt Ion: 56 Resp: 75010

Ion Ratio Lower Upper

56 100

69 30.8 25.4 38.0

84 91.4 72.6 109.0



#31

1,1,1-Trichloroethane

Concen: 25.545 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

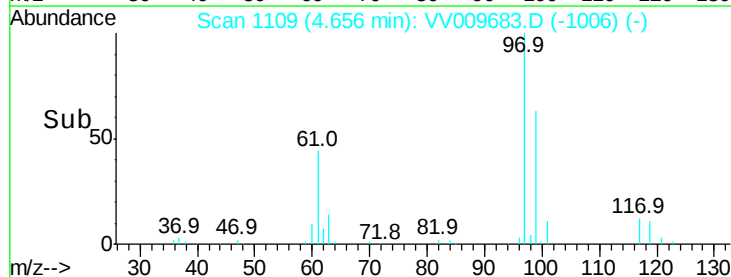
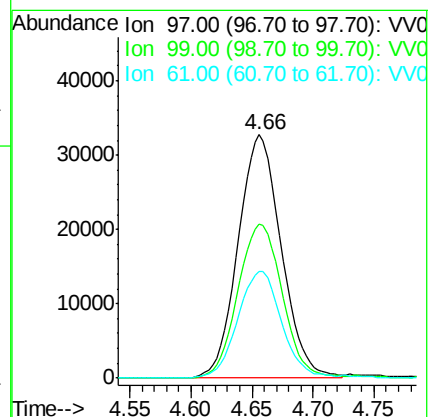
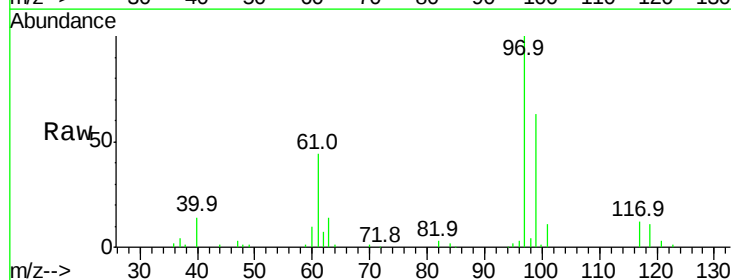
Tgt Ion: 97 Resp: 80284

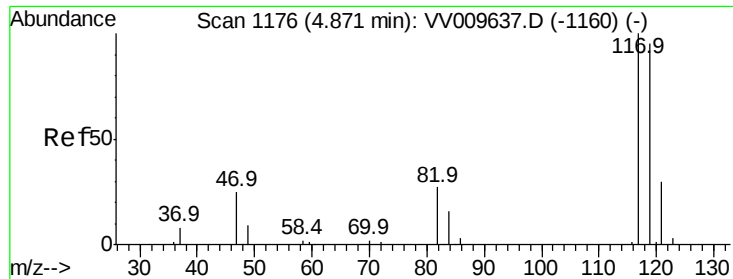
Ion Ratio Lower Upper

97 100

99 64.7 51.0 76.6

61 44.4 33.7 50.5





#32

Carbon tetrachloride

Concen: 26.194 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

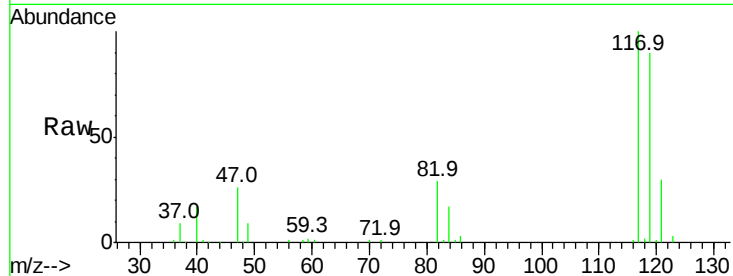
VSTD02563

Tgt Ion:117 Resp: 69756

Ion Ratio Lower Upper

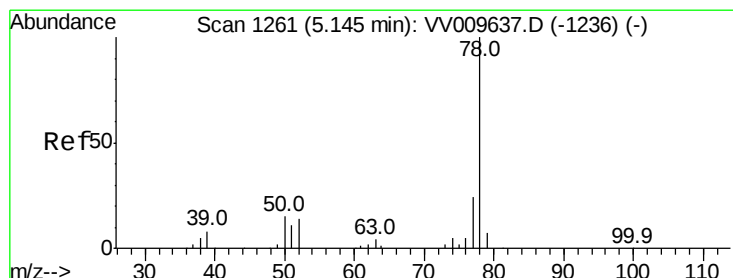
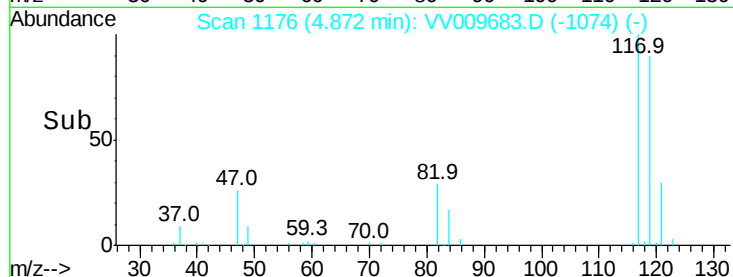
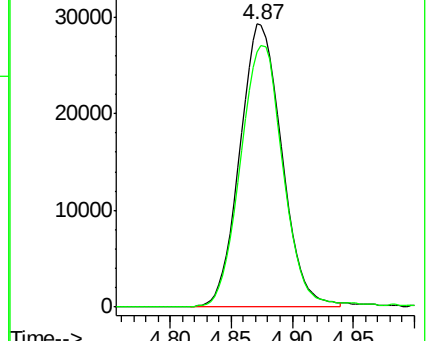
117 100

119 93.4 76.6 114.8



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 25.085 ug/L

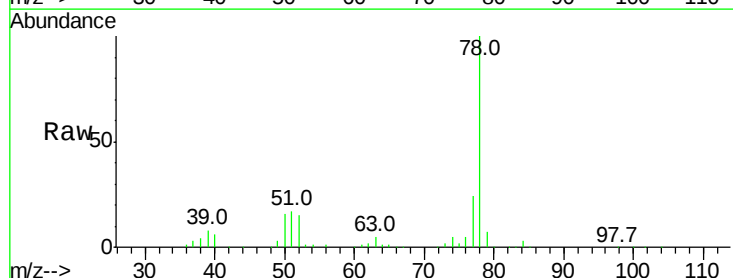
RT: 5.14 min Scan# 1261

Delta R.T. -0.00 min

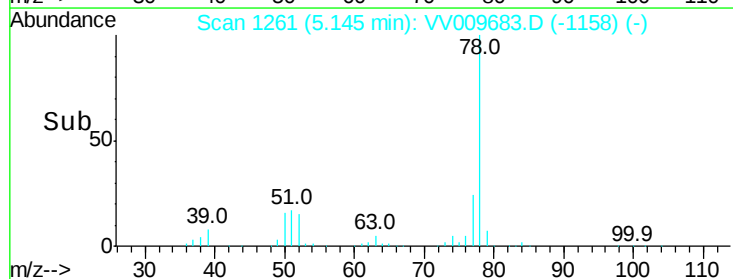
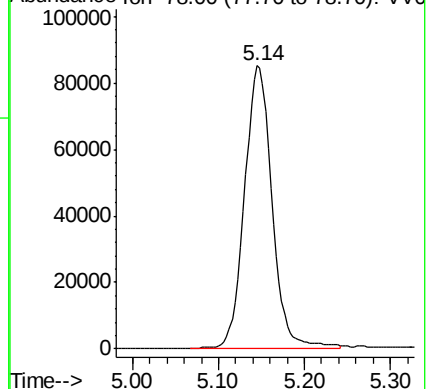
Lab File: VV009683.D

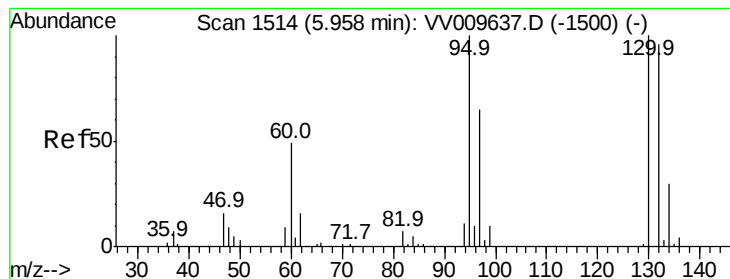
Acq: 15 Mar 2019 13:26

Tgt Ion: 78 Resp: 190858



Abundance Ion 78.00 (77.70 to 78.70): VV0





#35

Trichloroethene

Concen: 25.117 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

Tgt Ion: 95 Resp: 53065

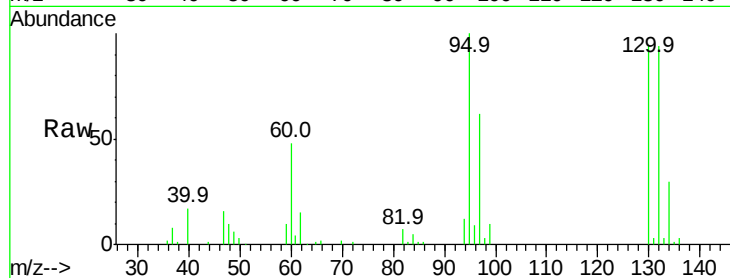
Ion Ratio Lower Upper

95 100

97 62.9 44.9 83.5

132 95.9 66.4 123.2

130 96.6 70.2 130.4

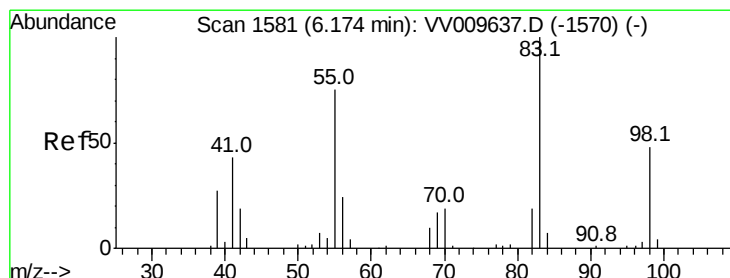
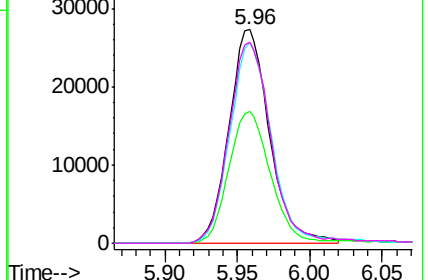
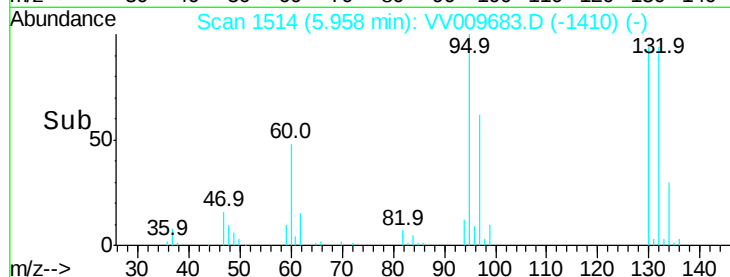


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0



#36

Methylcyclohexane

Concen: 24.591 ug/L

RT: 6.18 min Scan# 1582

Delta R.T. 0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

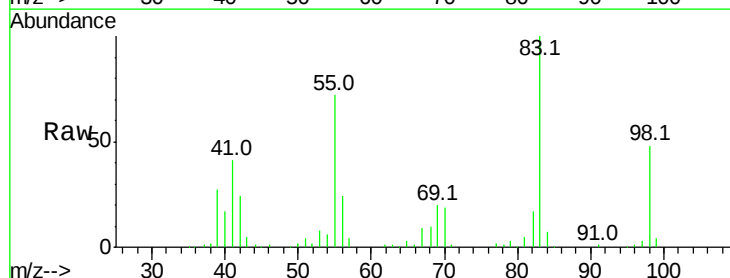
Tgt Ion: 83 Resp: 86271

Ion Ratio Lower Upper

83 100

55 71.0 57.4 86.0

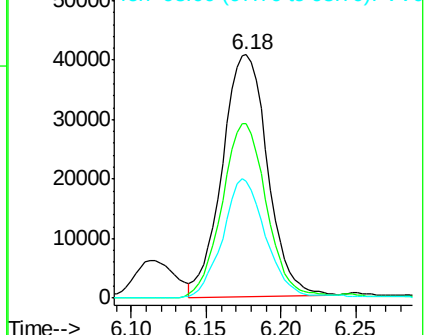
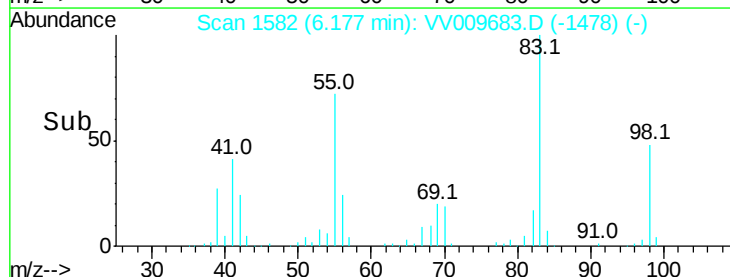
98 45.6 37.1 55.7

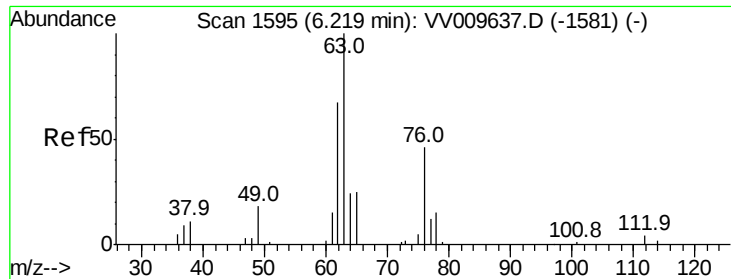


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 55.00 (54.70 to 55.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#40

1,2-Dichloropropane

Concen: 24.311 ug/L

RT: 6.22 min Scan# 1595

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

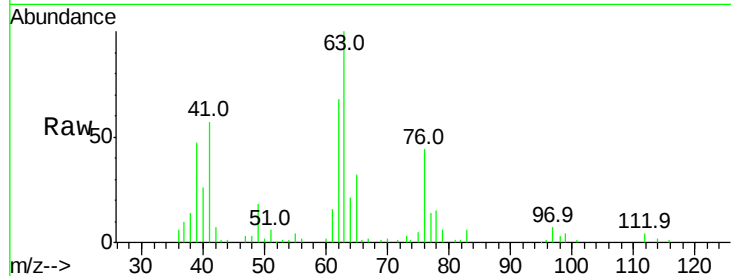
VSTD02563

Tgt Ion: 63 Resp: 44939

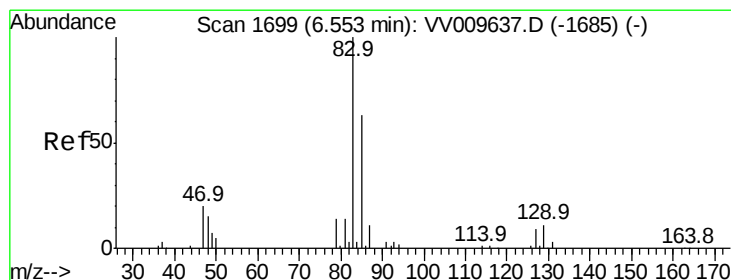
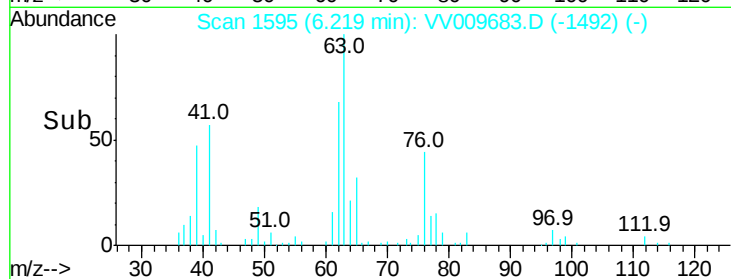
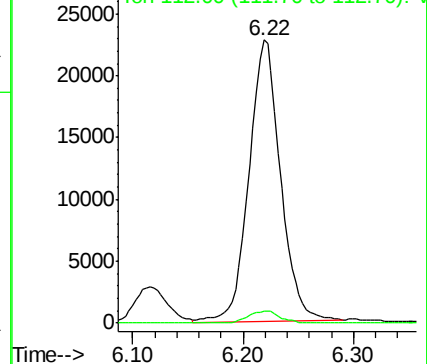
Ion Ratio Lower Upper

63 100

112 4.2 3.2 4.8



Abundance Ion 63.00 (62.70 to 63.70): VV009683.D (-1581) (-)



#41

Bromodichloromethane

Concen: 24.774 ug/L

RT: 6.55 min Scan# 1699

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

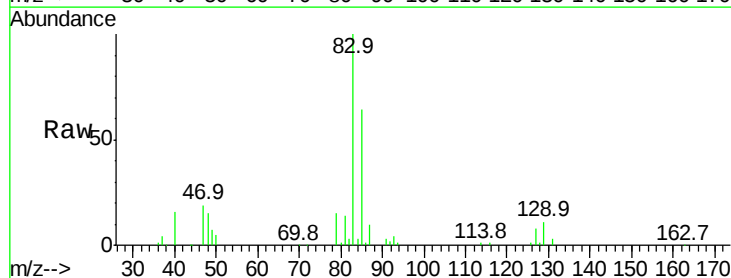
Tgt Ion: 83 Resp: 63009

Ion Ratio Lower Upper

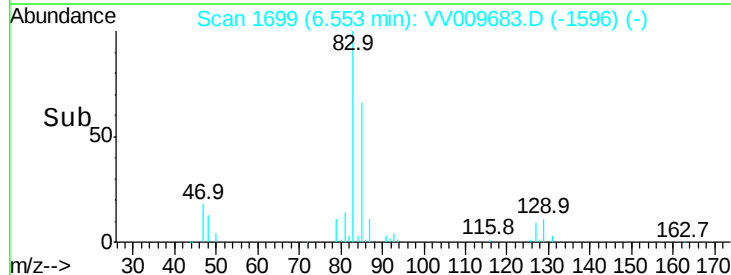
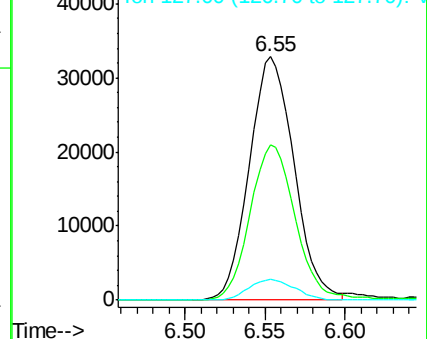
83 100

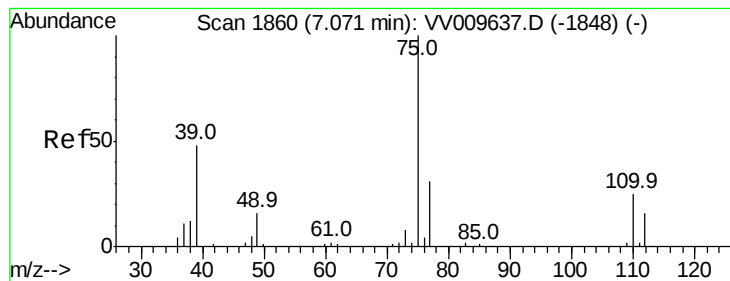
85 63.6 44.4 82.4

127 8.4 6.7 10.1



Abundance Ion 83.00 (82.70 to 83.70): VV009683.D (-1685) (-)





#42

cis-1,3-Dichloropropene

Concen: 25.723 ug/L

RT: 7.07 min Scan# 1859

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

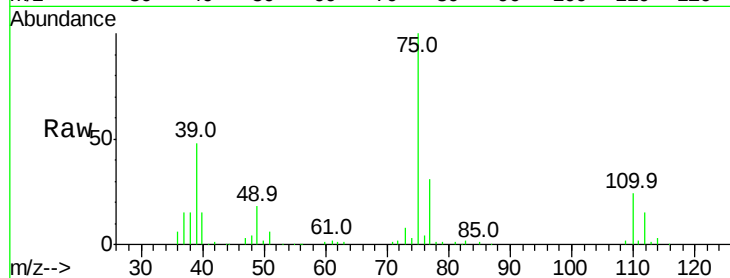
VSTD02563

Tgt Ion: 75 Resp: 72194

Ion Ratio Lower Upper

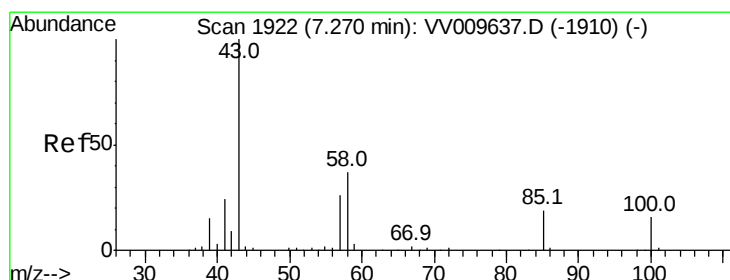
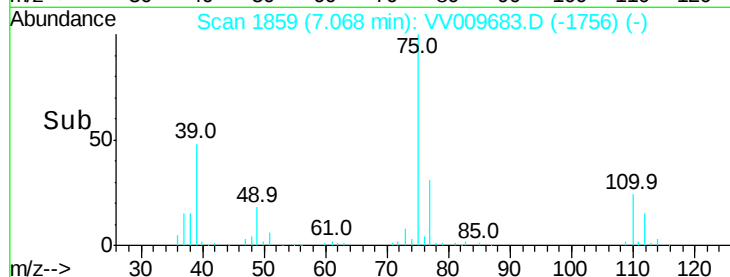
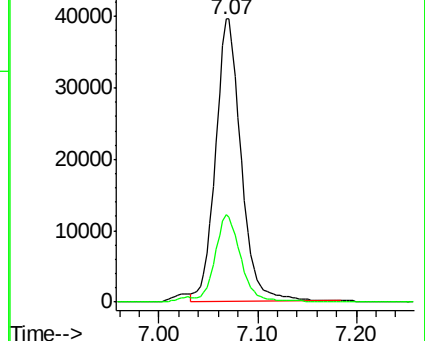
75 100

77 30.8 22.0 40.8



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: 51.017 ug/L

RT: 7.27 min Scan# 1922

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

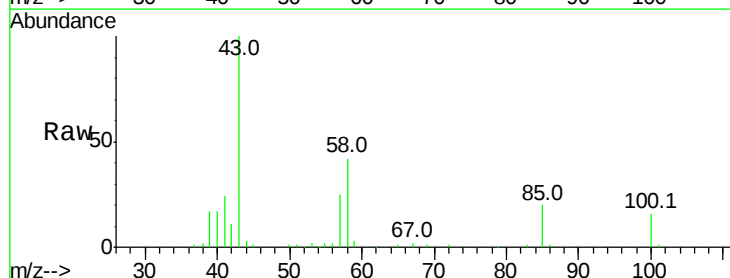
Tgt Ion: 43 Resp: 64487

Ion Ratio Lower Upper

43 100

58 40.5 30.9 46.3

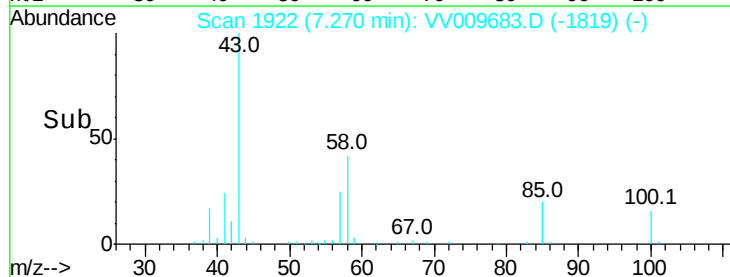
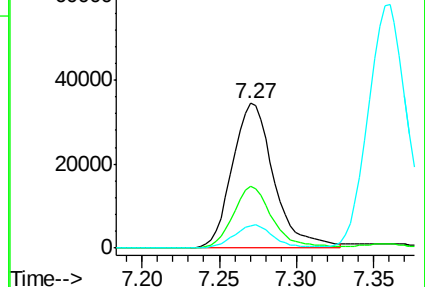
100 15.3 11.8 17.6

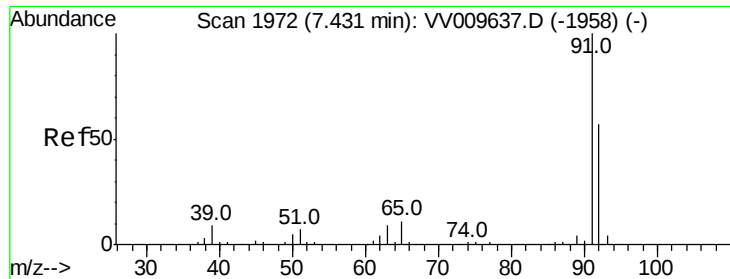


Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 58.00 (57.70 to 58.70): VV0

Ion 100.00 (99.70 to 100.70): VV0





#44

Toluene

Concen: 25.354 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

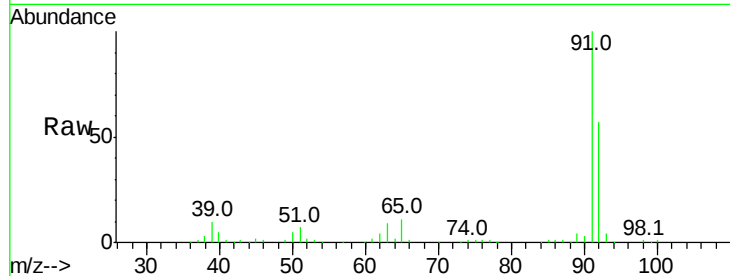
VSTD02563

Tgt Ion: 91 Resp: 214864

Ion Ratio Lower Upper

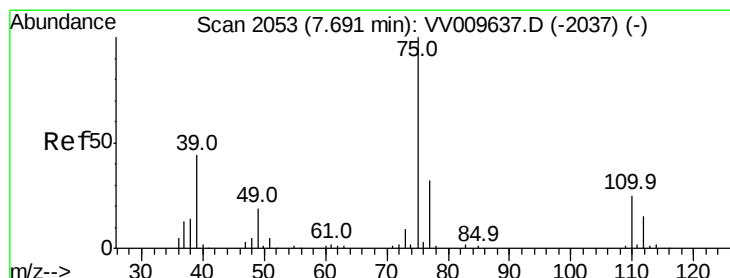
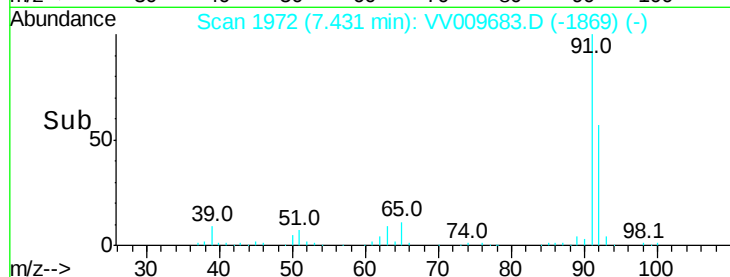
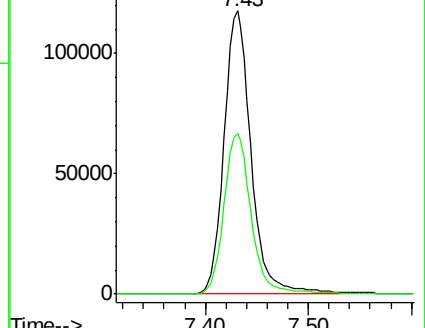
91 100

92 56.8 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VV009683.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009683.D (-1958) (-)



#45

trans-1,3-Dichloropropene

Concen: 24.768 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. -0.00 min

Lab File: VV009683.D

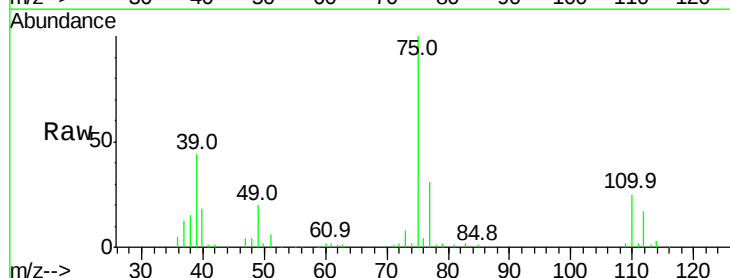
Acq: 15 Mar 2019 13:26

Tgt Ion: 75 Resp: 60028

Ion Ratio Lower Upper

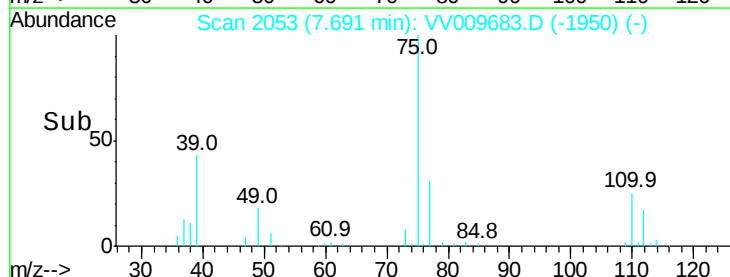
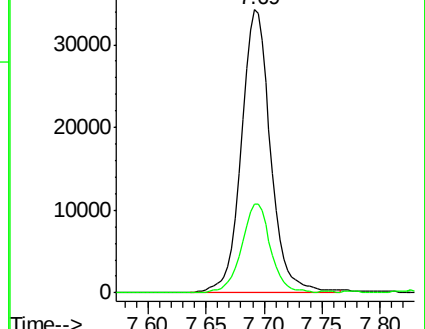
75 100

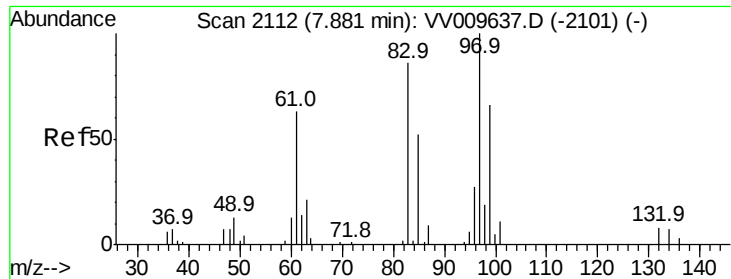
77 31.3 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV009683.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009683.D (-2037) (-)

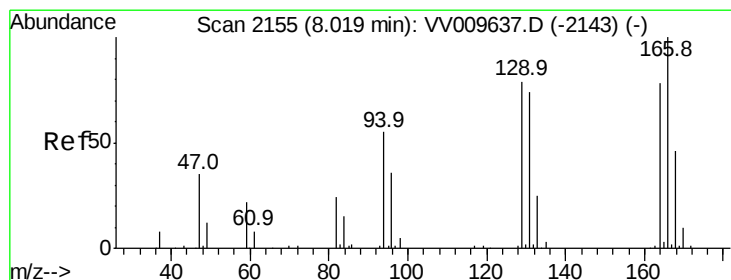
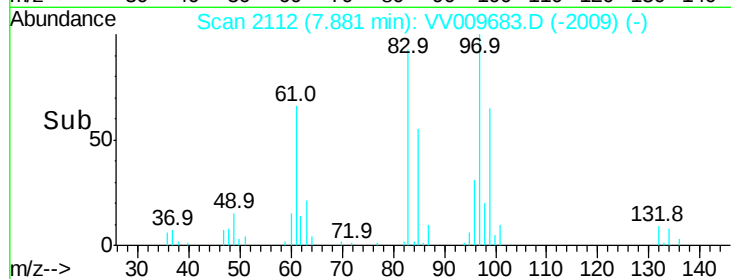
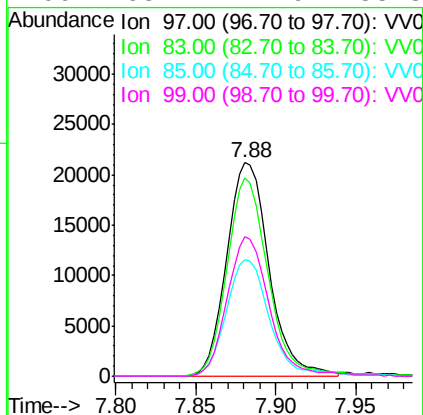
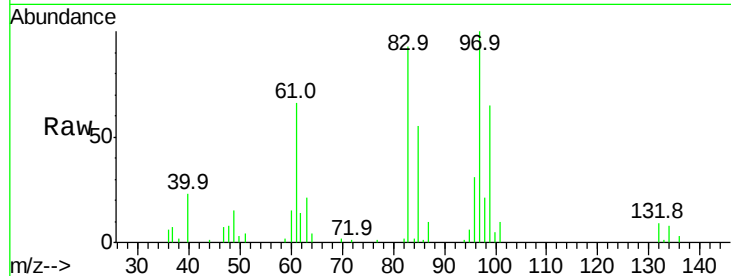




#46
 1,1,2-Trichloroethane
 Concen: 24.809 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

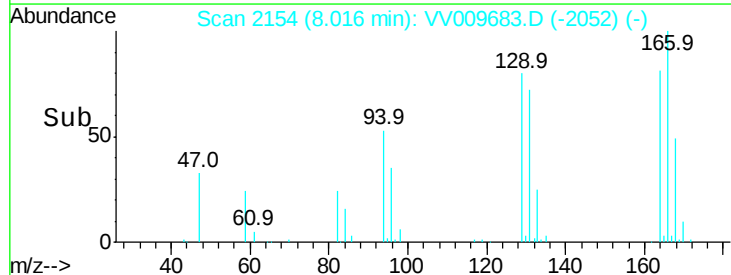
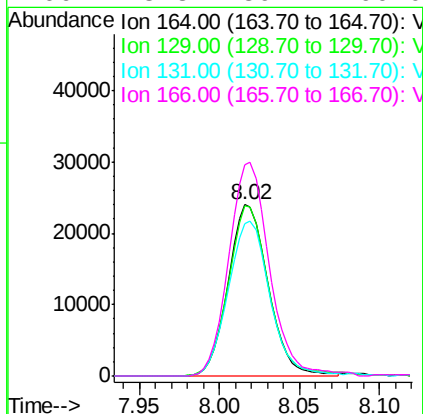
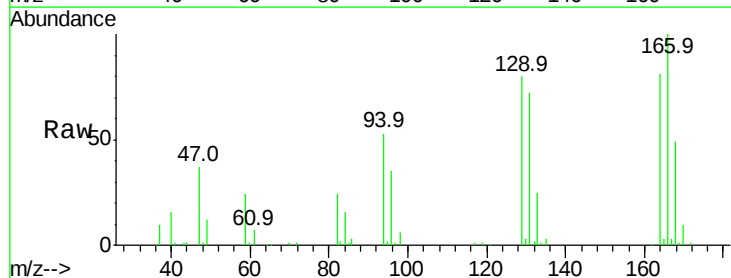
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

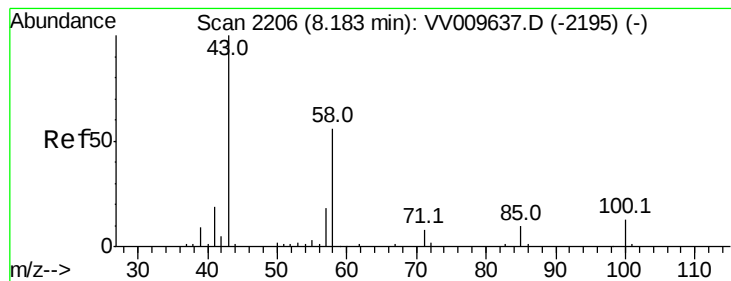
Tgt Ion:	97	Resp:	38317
Ion	Ratio	Lower	Upper
97	100		
83	93.1	62.9	116.7
85	54.7	40.0	74.2
99	65.4	44.9	83.3



#47
 Tetrachloroethene
 Concen: 24.571 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Tgt Ion:	164	Resp:	41006
Ion	Ratio	Lower	Upper
164	100		
129	99.2	69.0	128.1
131	88.9	65.7	122.1
166	123.3	89.4	166.0





#49

2-Hexanone

Concen: 51.242 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

Tgt Ion: 43 Resp: 48645

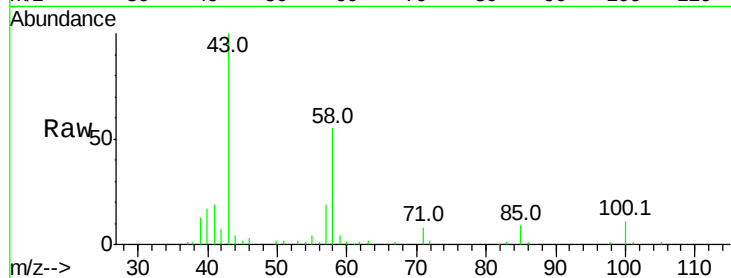
Ion Ratio Lower Upper

43 100

58 55.1 44.9 67.3

57 20.0 14.5 21.7

100 12.6 9.3 13.9

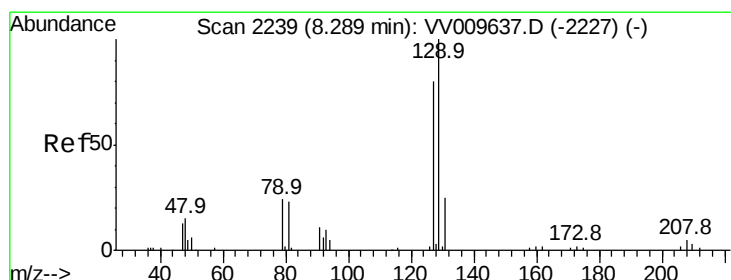
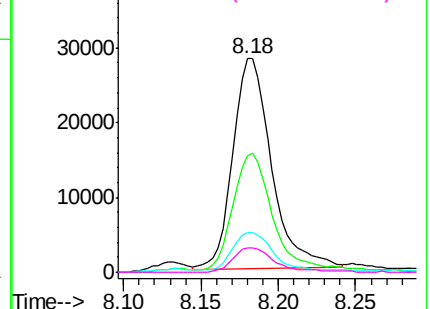
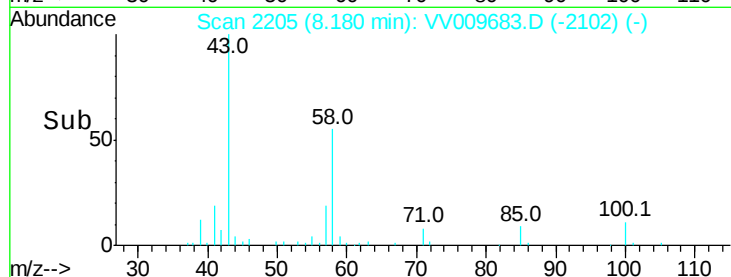


Abundance Ion 43.00 (42.70 to 43.70): VV009683.D (-2195) (-)

Ion 58.00 (57.70 to 58.70): VV009683.D (-2195) (-)

Ion 57.00 (56.70 to 57.70): VV009683.D (-2195) (-)

Ion 100.00 (99.70 to 100.70): VV009683.D (-2195) (-)



#50

Dibromochloromethane

Concen: 25.651 ug/L

RT: 8.29 min Scan# 2239

Delta R.T. -0.00 min

Lab File: VV009683.D

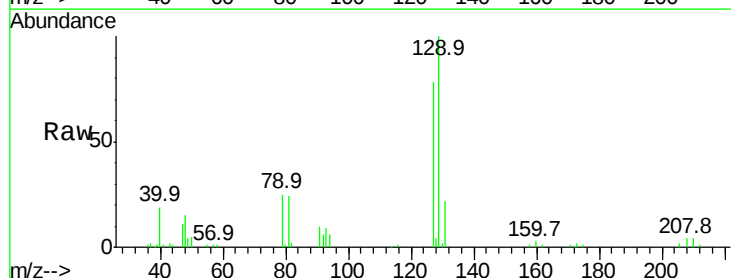
Acq: 15 Mar 2019 13:26

Tgt Ion: 129 Resp: 44931

Ion Ratio Lower Upper

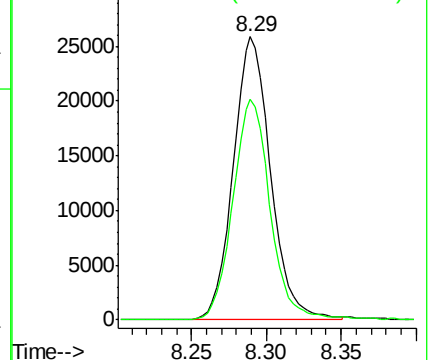
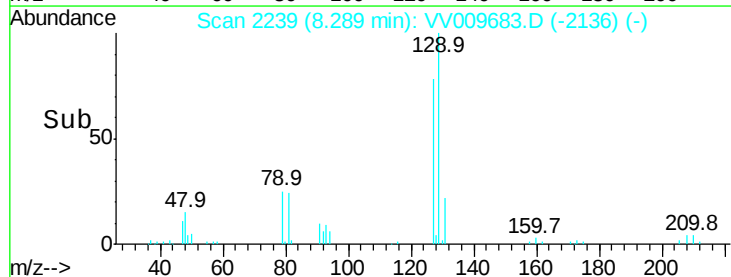
129 100

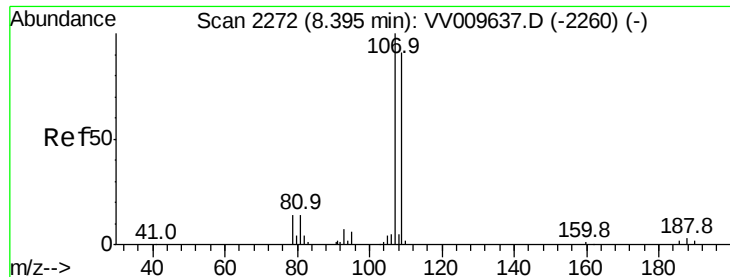
127 77.8 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): VV009683.D (-2136) (-)

Ion 127.00 (126.70 to 127.70): VV009683.D (-2136) (-)

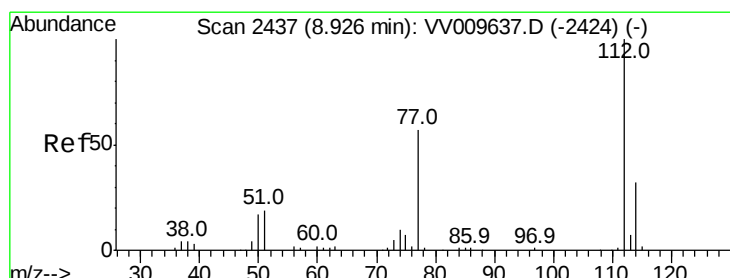
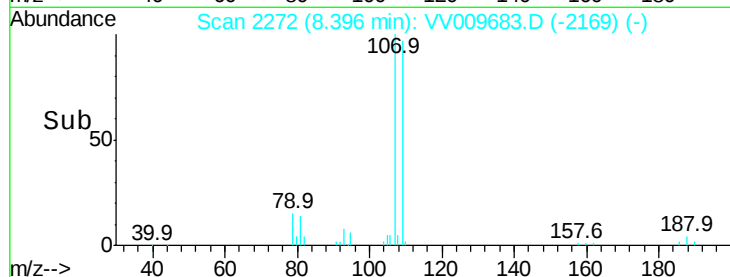
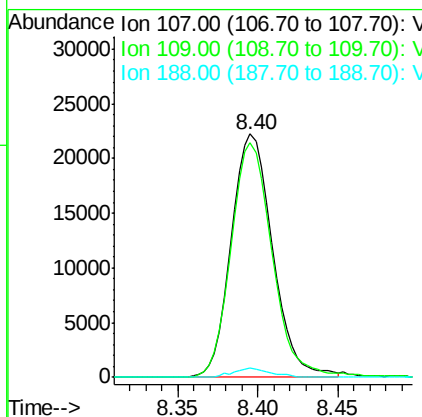
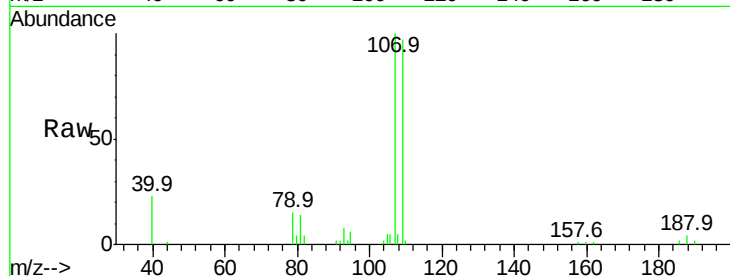




#51
 1,2-Dibromoethane
 Concen: 25.699 ug/L
 RT: 8.40 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

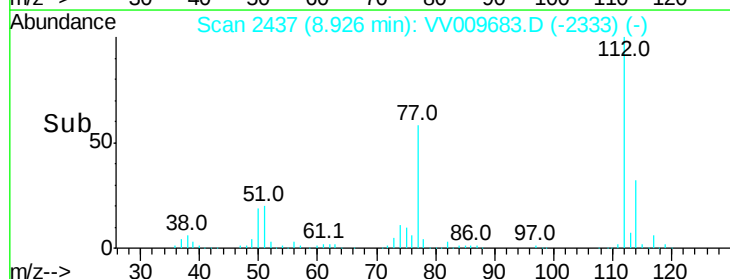
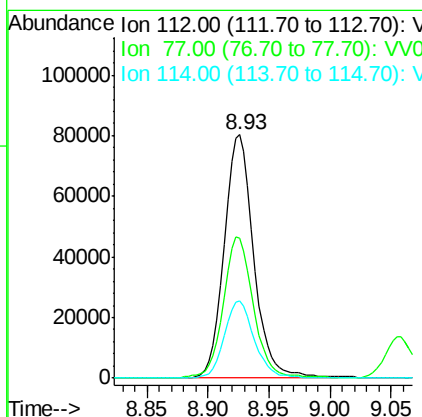
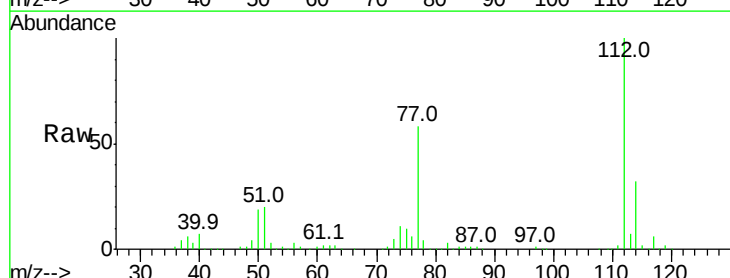
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

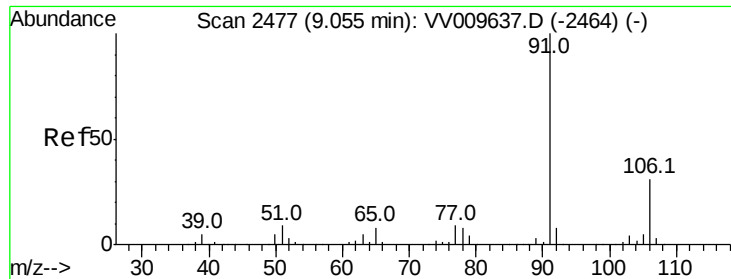
Tgt Ion:107 Resp: 39314
 Ion Ratio Lower Upper
 107 100
 109 96.6 68.4 127.0
 188 3.9 2.6 3.8#



#52
 Chlorobenzene
 Concen: 24.890 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. 0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Tgt Ion:112 Resp: 137245
 Ion Ratio Lower Upper
 112 100
 77 57.7 45.6 68.4
 114 31.8 22.3 41.5

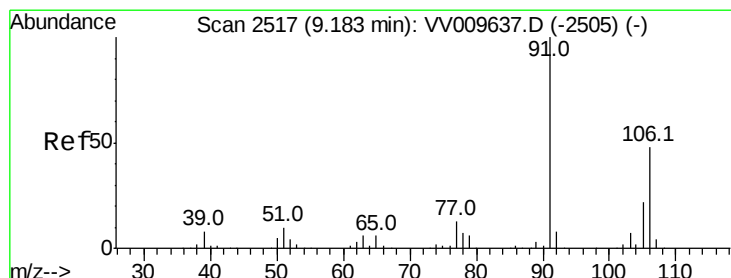
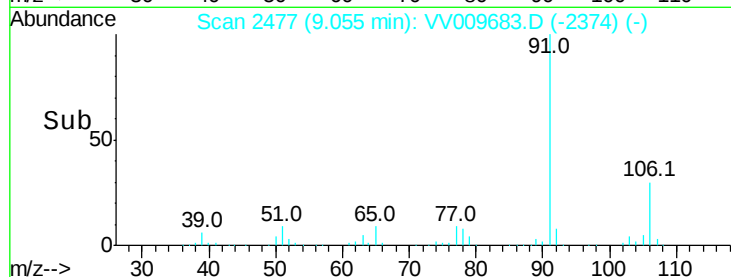
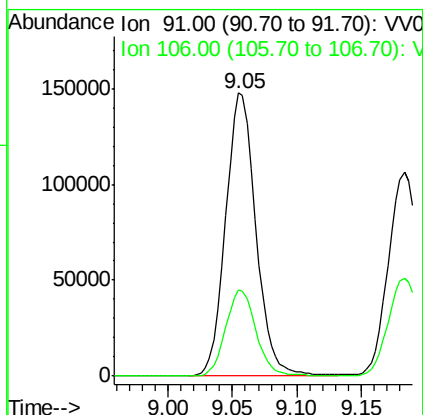
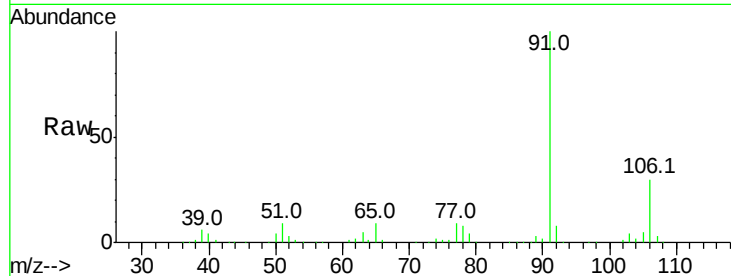




#53
Ethylbenzene
Concen: 25.718 ug/L
RT: 9.05 min Scan# 2477
Delta R.T. -0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

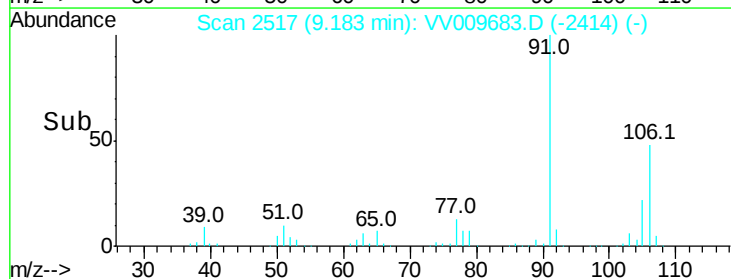
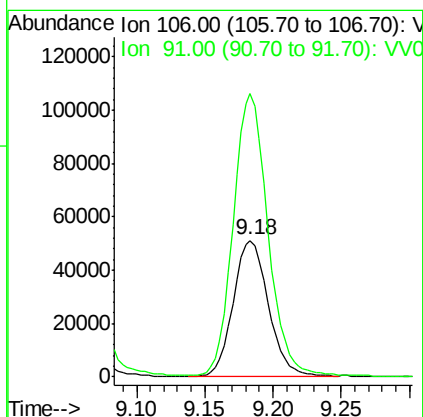
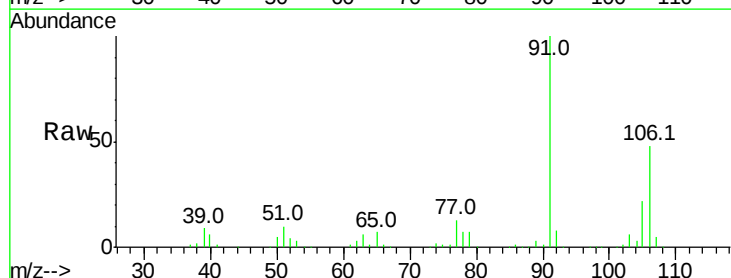
Instrument :
MSVOA_V
ClientSampleId :
VSTD02563

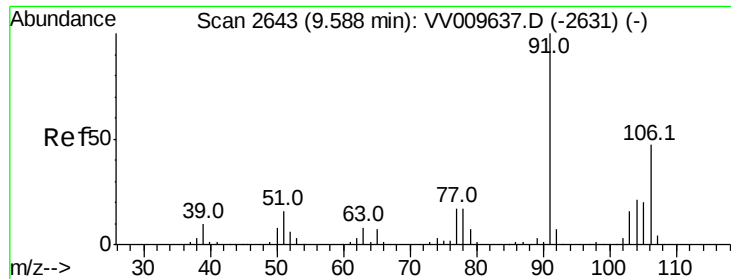
Tgt Ion: 91 Resp: 241056
Ion Ratio Lower Upper
91 100
106 30.4 21.1 39.1



#54
m,p-Xylene
Concen: 25.858 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. -0.00 min
Lab File: VV009683.D
Acq: 15 Mar 2019 13:26

Tgt Ion: 106 Resp: 91487
Ion Ratio Lower Upper
106 100
91 207.0 141.4 262.6





#55

o-xylene

Concen: 25.805 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

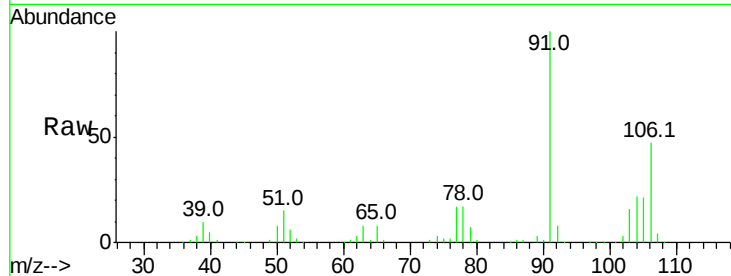
VSTD02563

Tgt Ion:106 Resp: 89603

Ion Ratio Lower Upper

106 100

91 211.2 149.7 278.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

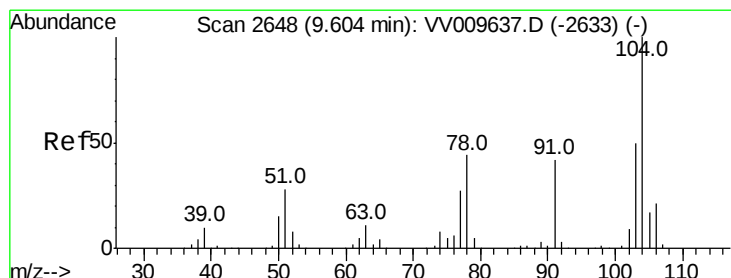
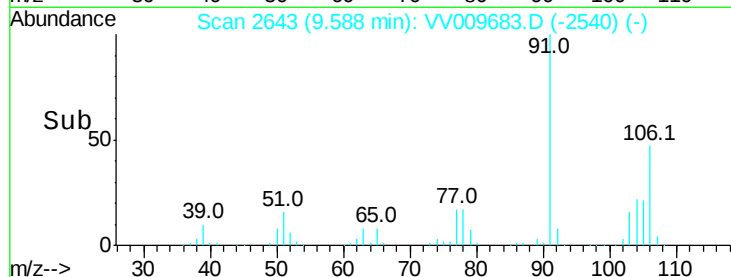
100000

9.59

50000

0

Time--> 9.50 9.55 9.60 9.65 9.70



#56

Styrene

Concen: 26.136 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. -0.00 min

Lab File: VV009683.D

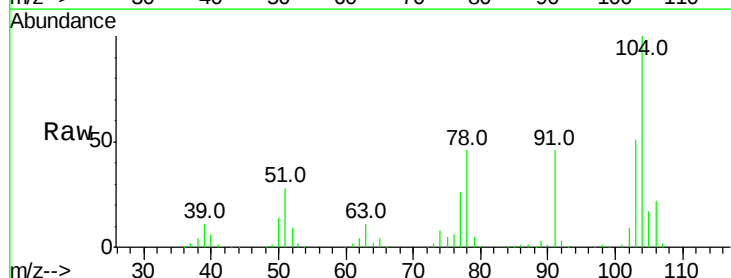
Acq: 15 Mar 2019 13:26

Tgt Ion:104 Resp: 148018

Ion Ratio Lower Upper

104 100

78 46.4 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

100000

9.60

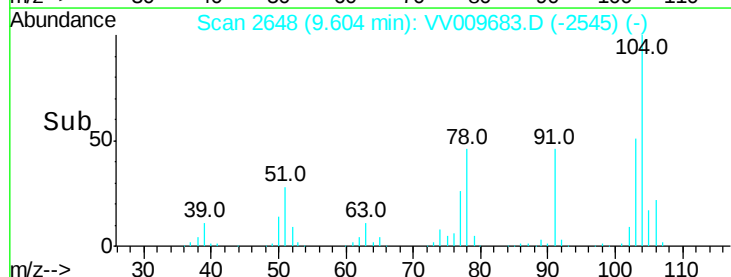
80000

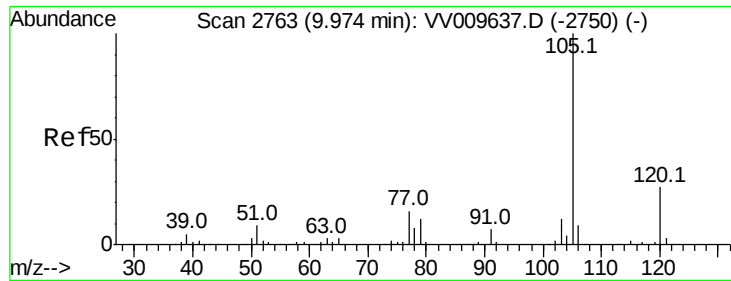
40000

20000

0

Time--> 9.50 9.55 9.60 9.65 9.70





#57

Isopropylbenzene

Concen: 26.207 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

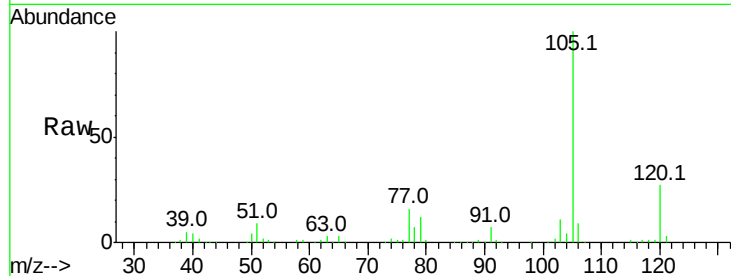
Tgt Ion: 105 Resp: 241347

Ion Ratio Lower Upper

105 100

120 26.2 21.5 32.3

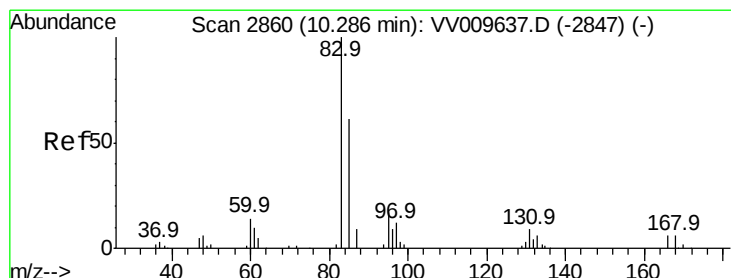
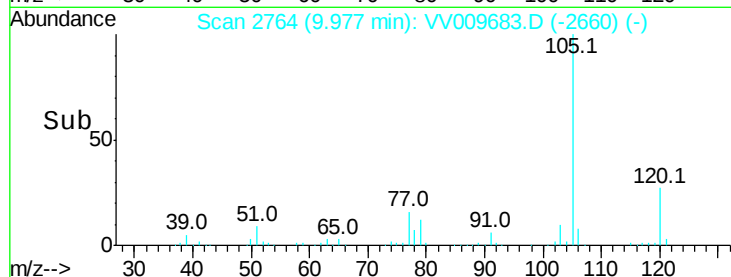
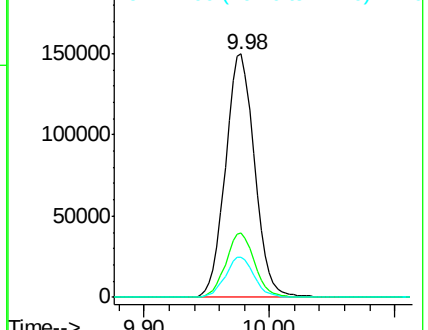
77 16.4 12.9 19.3



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: 26.472 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

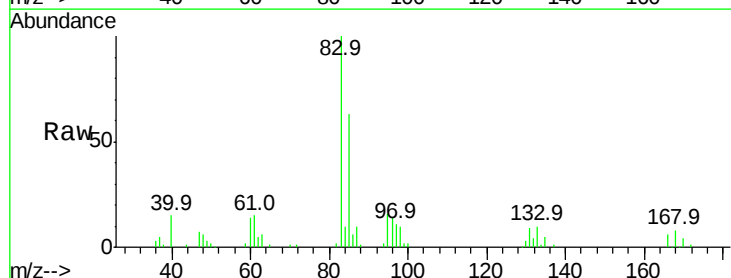
Tgt Ion: 83 Resp: 53013

Ion Ratio Lower Upper

83 100

85 63.0 46.1 85.7

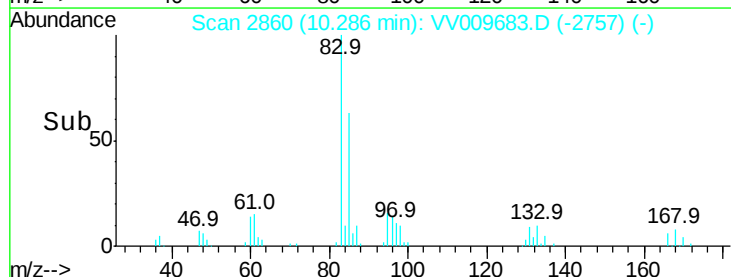
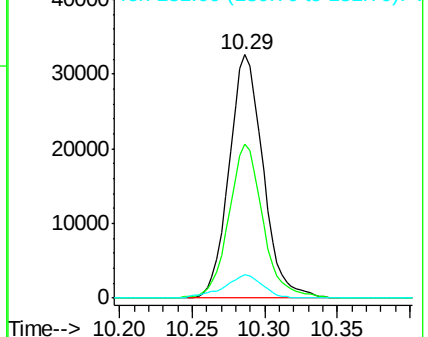
131 9.4 8.0 12.0

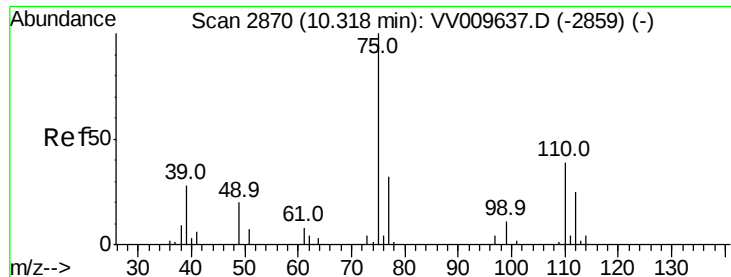


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V

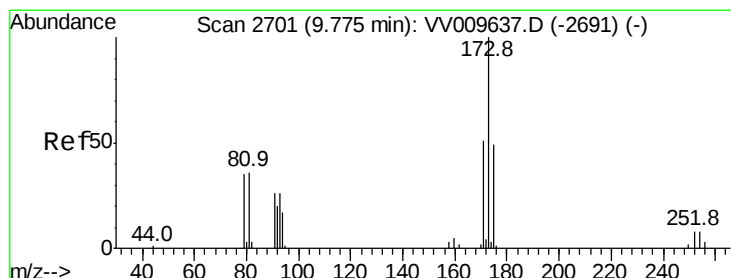
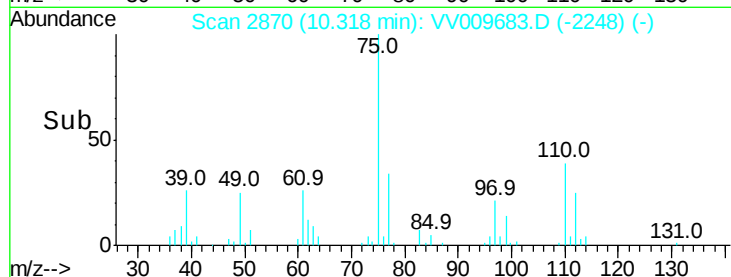
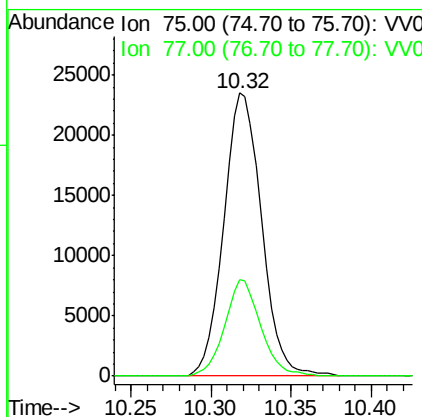
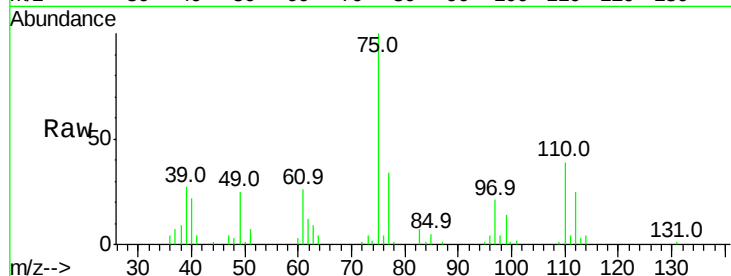




#59
 1,2,3-Trichloropropane
 Concen: 26.388 ug/L
 RT: 10.32 min Scan# 2870
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

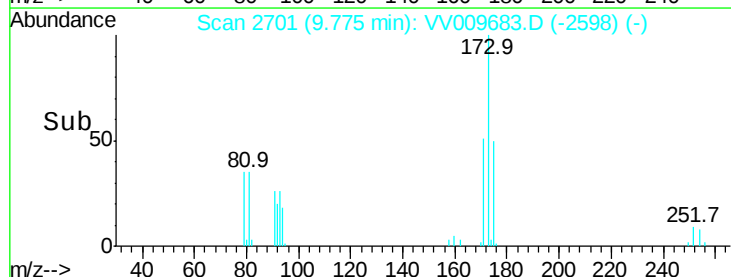
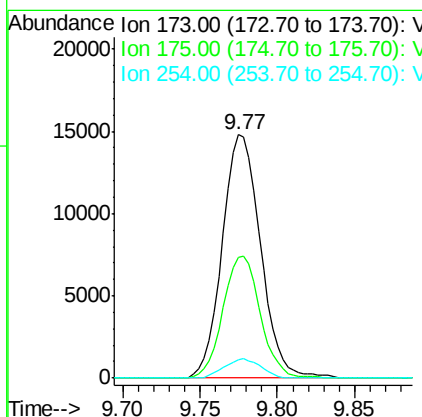
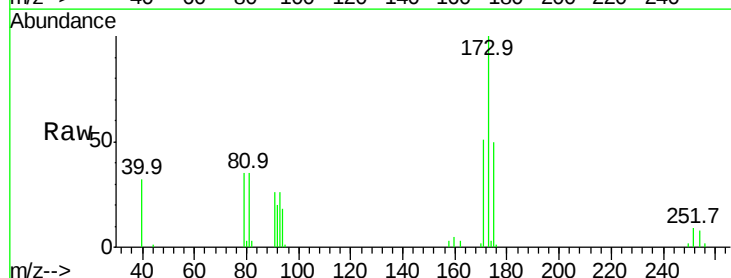
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

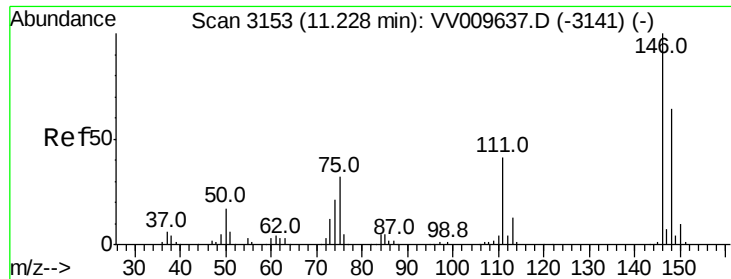
Tgt Ion: 75 Resp: 37937
 Ion Ratio Lower Upper
 75 100
 77 32.5 25.3 37.9



#62
 Bromoform
 Concen: 25.803 ug/L
 RT: 9.77 min Scan# 2701
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Tgt Ion: 173 Resp: 25412
 Ion Ratio Lower Upper
 173 100
 175 48.8 37.8 56.6
 254 7.5 6.1 9.1





#63

1,3-Dichlorobenzene

Concen: 24.553 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

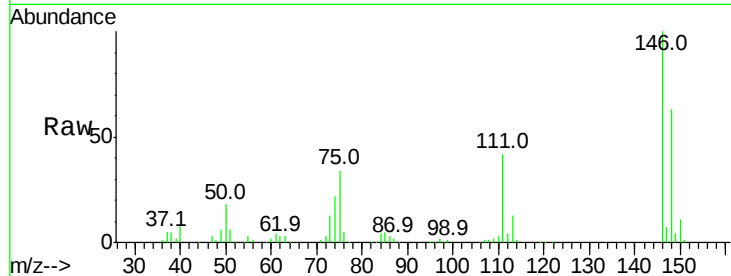
Tgt Ion:146 Resp: 103259

Ion Ratio Lower Upper

146 100

111 41.9 28.8 53.6

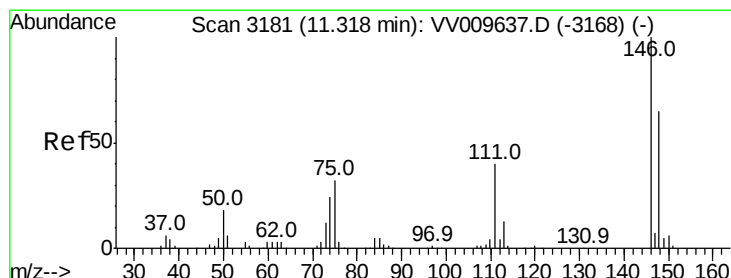
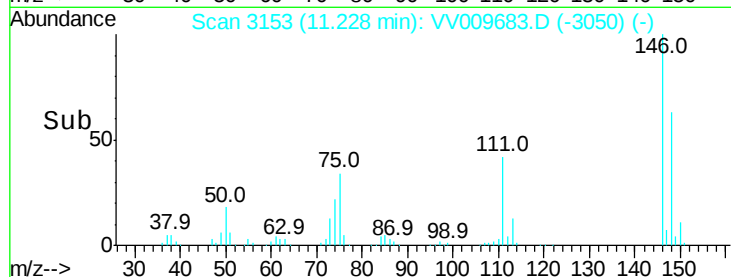
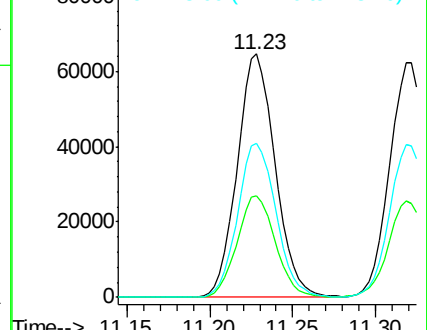
148 63.4 45.1 83.7



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



#64

1,4-Dichlorobenzene

Concen: 23.561 ug/L

RT: 11.32 min Scan# 3181

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

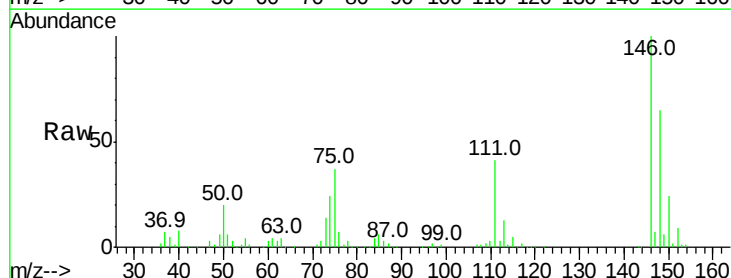
Tgt Ion:146 Resp: 100859

Ion Ratio Lower Upper

146 100

111 41.3 28.2 52.4

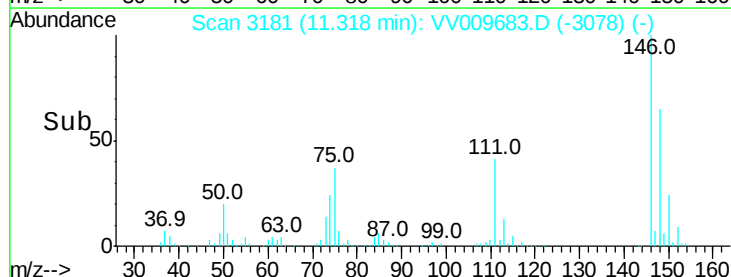
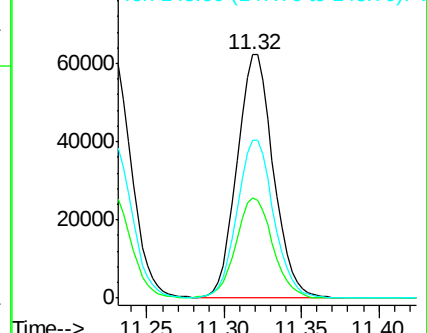
148 64.9 44.2 82.0

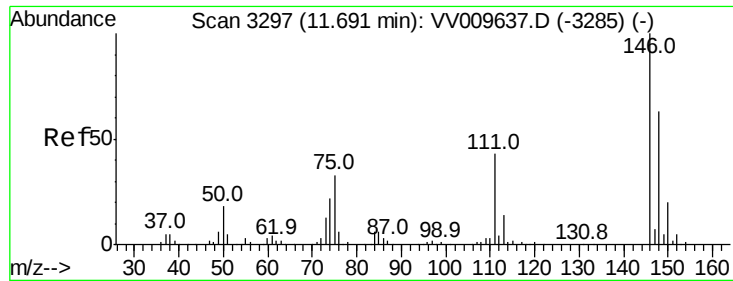


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 24.554 ug/L

RT: 11.69 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

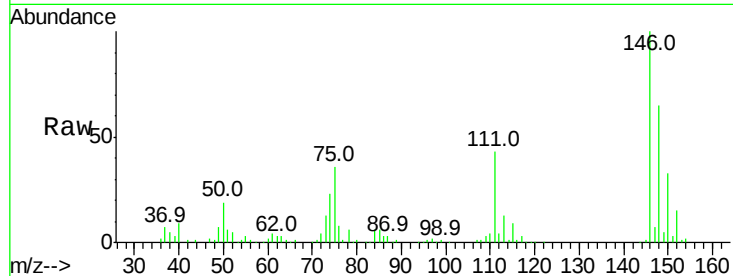
Tgt Ion:146 Resp: 96079

Ion Ratio Lower Upper

146 100

111 43.1 33.8 50.6

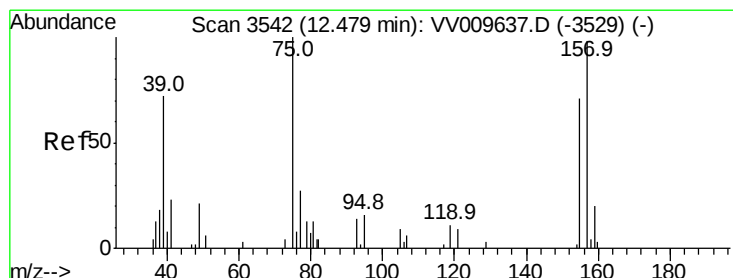
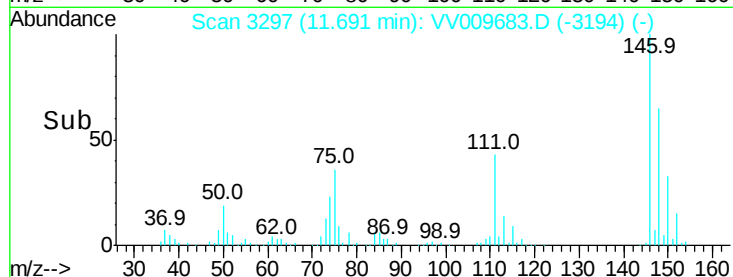
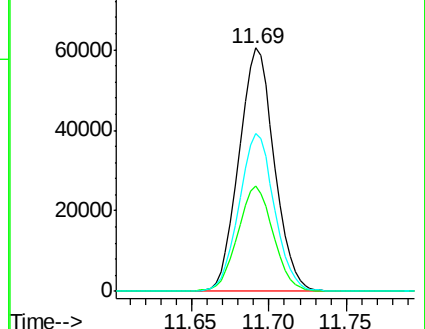
148 64.7 49.1 73.7



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: 26.545 ug/L

RT: 12.48 min Scan# 3542

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

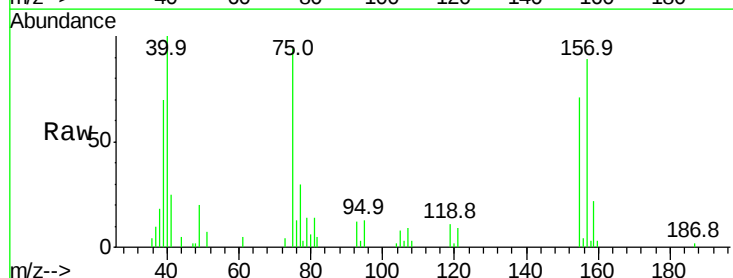
Tgt Ion: 75 Resp: 7690

Ion Ratio Lower Upper

75 100

157 94.3 78.6 118.0

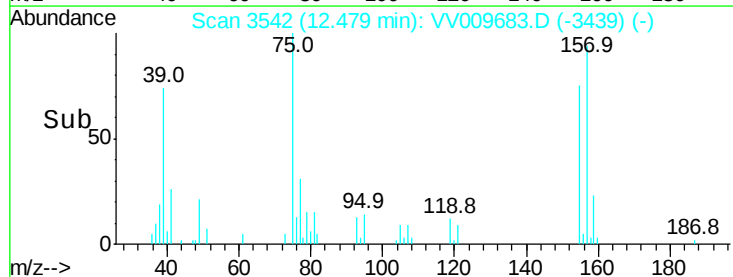
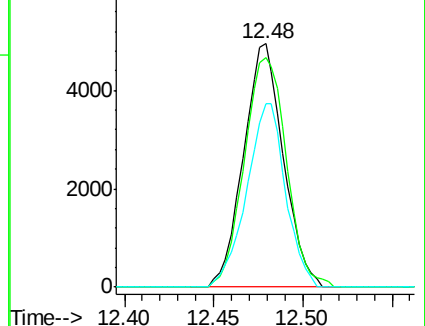
155 75.3 60.0 90.0

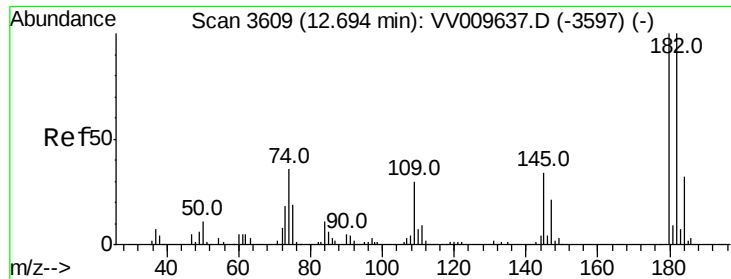


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 157.00 (156.70 to 157.70): V

Ion 155.00 (154.70 to 155.70): V

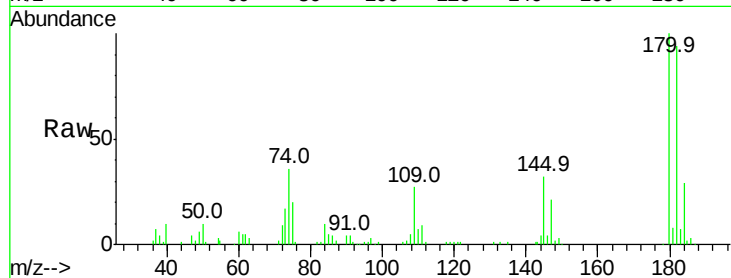




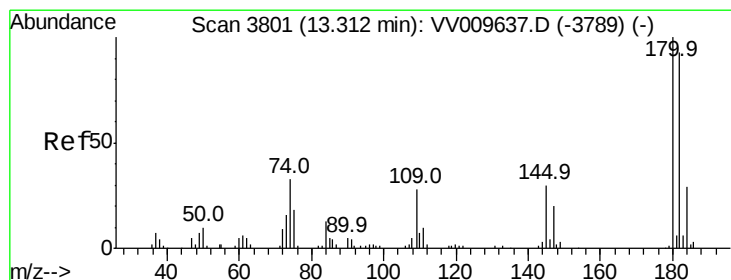
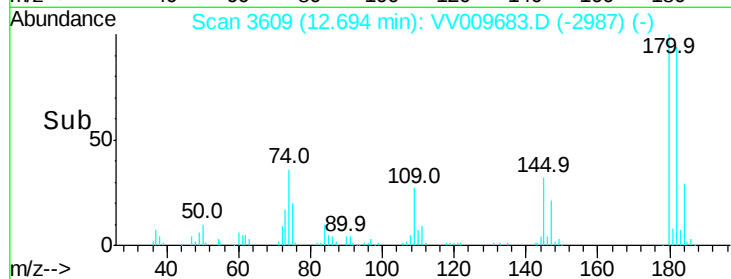
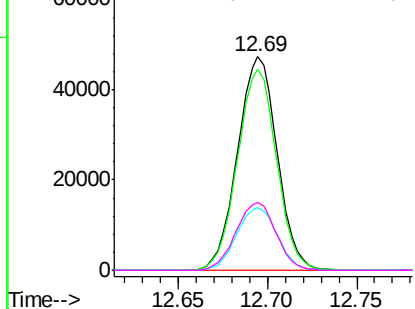
#67
 1,3,5-Trichlorobenzene
 Concen: 25.062 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02563

Tgt Ion:180 Resp: 73400
 Ion Ratio Lower Upper
 180 100
 182 93.0 76.3 114.5
 184 30.0 23.8 35.8
 145 32.0 25.8 38.8

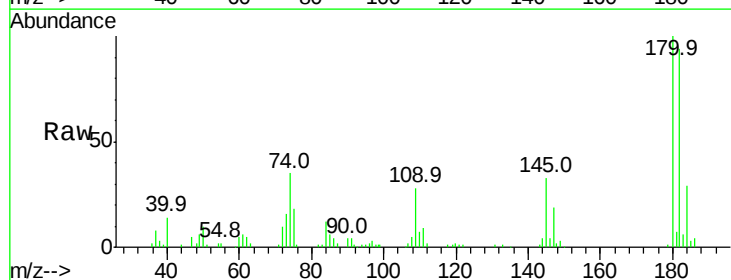


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

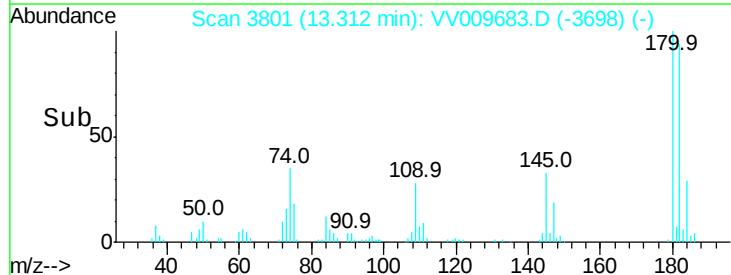
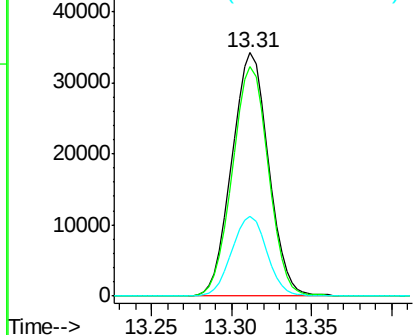


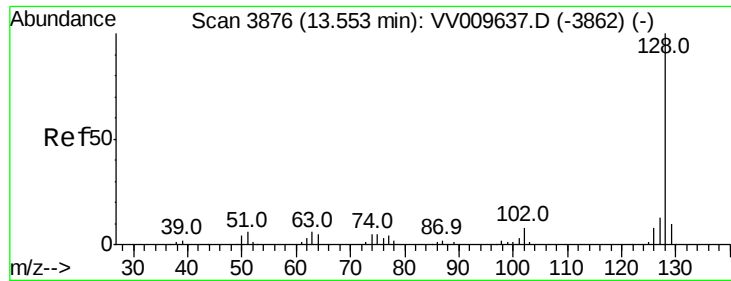
#68
 1,2,4-trichlorobenzene
 Concen: 25.726 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. -0.00 min
 Lab File: VV009683.D
 Acq: 15 Mar 2019 13:26

Tgt Ion:180 Resp: 53410
 Ion Ratio Lower Upper
 180 100
 182 92.1 77.4 116.0
 145 31.4 26.4 39.6



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





#69

Naphthalene

Concen: 23.950 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

Instrument :

MSVOA_V

ClientSampleId :

VSTD02563

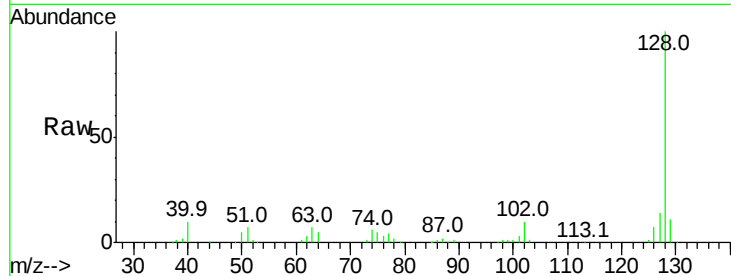
Tgt Ion:128 Resp: 82128

Ion Ratio Lower Upper

128 100

129 10.4 8.3 12.5

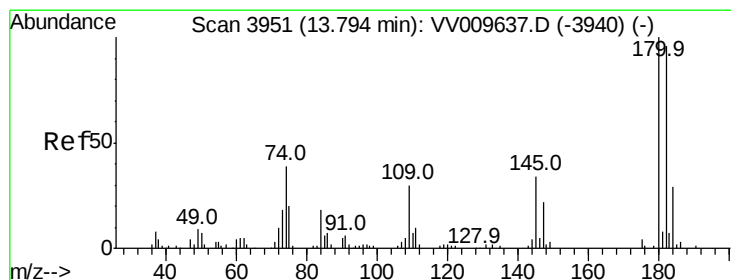
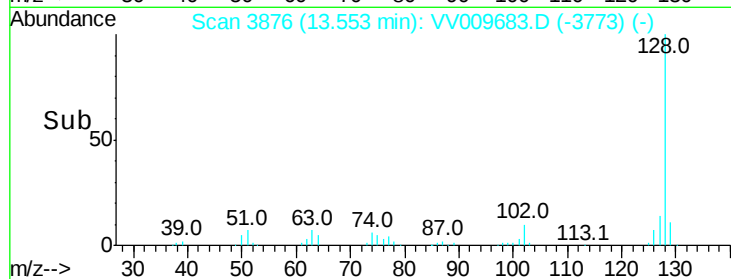
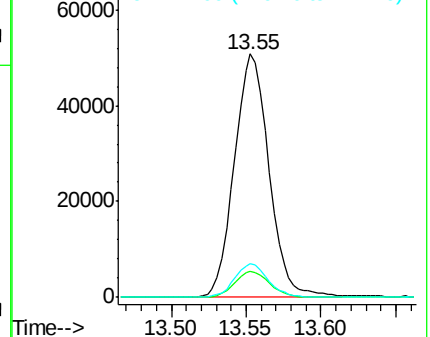
127 13.3 11.0 16.6



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: 25.073 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. -0.00 min

Lab File: VV009683.D

Acq: 15 Mar 2019 13:26

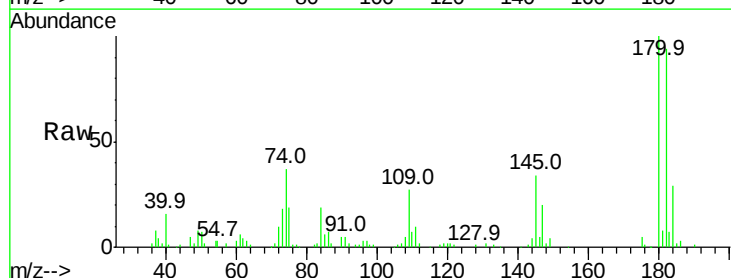
Tgt Ion:180 Resp: 47869

Ion Ratio Lower Upper

180 100

182 93.9 76.9 115.3

145 33.9 27.3 40.9



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

