

Data File : VV009679.D
Acq On : 15 Mar 2019 10:16
Operator : SY/MD
Sample : VSTDCCC025
Misc : 5.00G/10ML/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Quant Time: Mar 15 22:52:01 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	143412	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	138450	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	65884	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	45997	25.08	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.32%
7) Chloroethane-d5	1.57	69	45136	19.95	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	79.80%
10) 1,1-Dichloroethene-d2	2.13	63	122574	24.73	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	98.92%
20) 2-Butanone-d5	3.93	46	31809	66.22	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	132.44%
24) Chloroform-d	4.40	84	95184	26.03	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	104.12%
26) 1,2-Dichloroethane-d4	5.08	65	55392	26.78	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	107.12%
29) Benzene-d6	5.10	84	196052	27.00	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	108.00%
33) 1,2-Dichloropropane-d6	6.12	67	56421	26.59	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	106.36%
37) Toluene-d8	7.36	98	186228	26.50	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	106.00%
38) trans-1,3-Dichloropropene-	7.66	79	25943	26.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	106.40%
39) 2-Hexanone-d5	8.13	63	23186	59.34	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	118.68%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	57700	28.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	114.88%
61) 1,2-Dichlorobenzene-d4	11.67	152	64575	25.30	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	101.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	52882	23.833 ug/L	99
3) Chloromethane	1.25	50	46077	23.308 ug/L	100
5) Vinyl chloride	1.32	62	50340	23.700 ug/L	98
6) Bromomethane	1.51	94	50503	21.484 ug/L	100
8) Chloroethane	1.59	64	35215	19.307 ug/L	99
9) Trichlorofluoromethane	1.76	101	107267	23.806 ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	58564	23.902 ug/L	98
12) 1,1-Dichloroethene	2.14	96	51445	23.933 ug/L	98
13) Acetone	2.19	43	35077	60.578 ug/L	99
14) Carbon disulfide	2.31	76	130759	24.291 ug/L	100
15) Methyl Acetate	2.46	43	21777	25.777 ug/L	100
16) Methylene chloride	2.53	84	48143	23.060 ug/L	96
17) Methyl tert-butyl Ether	2.80	73	107952	24.177 ug/L	99
18) trans-1,2-Dichloroethene	2.79	96	47375	25.285 ug/L	96
19) 1,1-Dichloroethane	3.23	63	82587	25.254 ug/L	99
21) 2-Butanone	4.01	43	34754	48.617 ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	52006	24.770 ug/L	93

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Quant Title : VOC Analysis
QLast Update : Fri Mar 15 04:30:02 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	22940	23.633	ug/L	97
25) Chloroform	4.42	83	92998	24.958	ug/L	100
27) 1,2-Dichloroethane	5.18	62	62066	24.123	ug/L	98
30) Cyclohexane	4.72	56	74428	23.796	ug/L	95
31) 1,1,1-Trichloroethane	4.66	97	80661	24.879	ug/L	98
32) Carbon tetrachloride	4.87	117	69488	25.295	ug/L	100
34) Benzene	5.14	78	189471	24.140	ug/L	100
35) Trichloroethene	5.96	95	53195	24.408	ug/L	99
36) Methylcyclohexane	6.17	83	86001	23.763	ug/L	99
40) 1,2-Dichloropropane	6.22	63	45442	23.830	ug/L	100
41) Bromodichloromethane	6.55	83	63149	24.069	ug/L	97
42) cis-1,3-Dichloropropene	7.07	75	70581	24.378	ug/L	98
43) 4-Methyl-2-pentanone	7.27	43	66711	51.160	ug/L	99
44) Toluene	7.43	91	212971	24.361	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	60567	24.225	ug/L	96
46) 1,1,2-Trichloroethane	7.88	97	38873	24.398	ug/L	99
47) Tetrachloroethene	8.02	164	41595	24.161	ug/L	99
49) 2-Hexanone	8.18	43	51696	52.788	ug/L	99
50) Dibromochloromethane	8.29	129	45034	24.923	ug/L	96
51) 1,2-Dibromoethane	8.40	107	39136	24.799	ug/L #	97
52) Chlorobenzene	8.92	112	136433	23.985	ug/L	98
53) Ethylbenzene	9.05	91	238035	24.618	ug/L	98
54) m,p-Xylene	9.18	106	93281	25.557	ug/L	98
55) o-xylene	9.59	106	87044	24.300	ug/L	96
56) Styrene	9.60	104	145518	24.907	ug/L	100
57) Isopropylbenzene	9.97	105	236249	24.868	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.29	83	53372	25.835	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	37560	25.326	ug/L	98
62) Bromoform	9.78	173	25850	25.677	ug/L	98
63) 1,3-Dichlorobenzene	11.23	146	102679	23.884	ug/L	99
64) 1,4-Dichlorobenzene	11.32	146	100395	22.943	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	94092	23.523	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	7660	25.867	ug/L	95
67) 1,3,5-Trichlorobenzene	12.69	180	71620	23.922	ug/L	98
68) 1,2,4-trichlorobenzene	13.31	180	48788	22.989	ug/L	100
69) Naphthalene	13.55	128	79476	22.672	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	46001	23.571	ug/L	99

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

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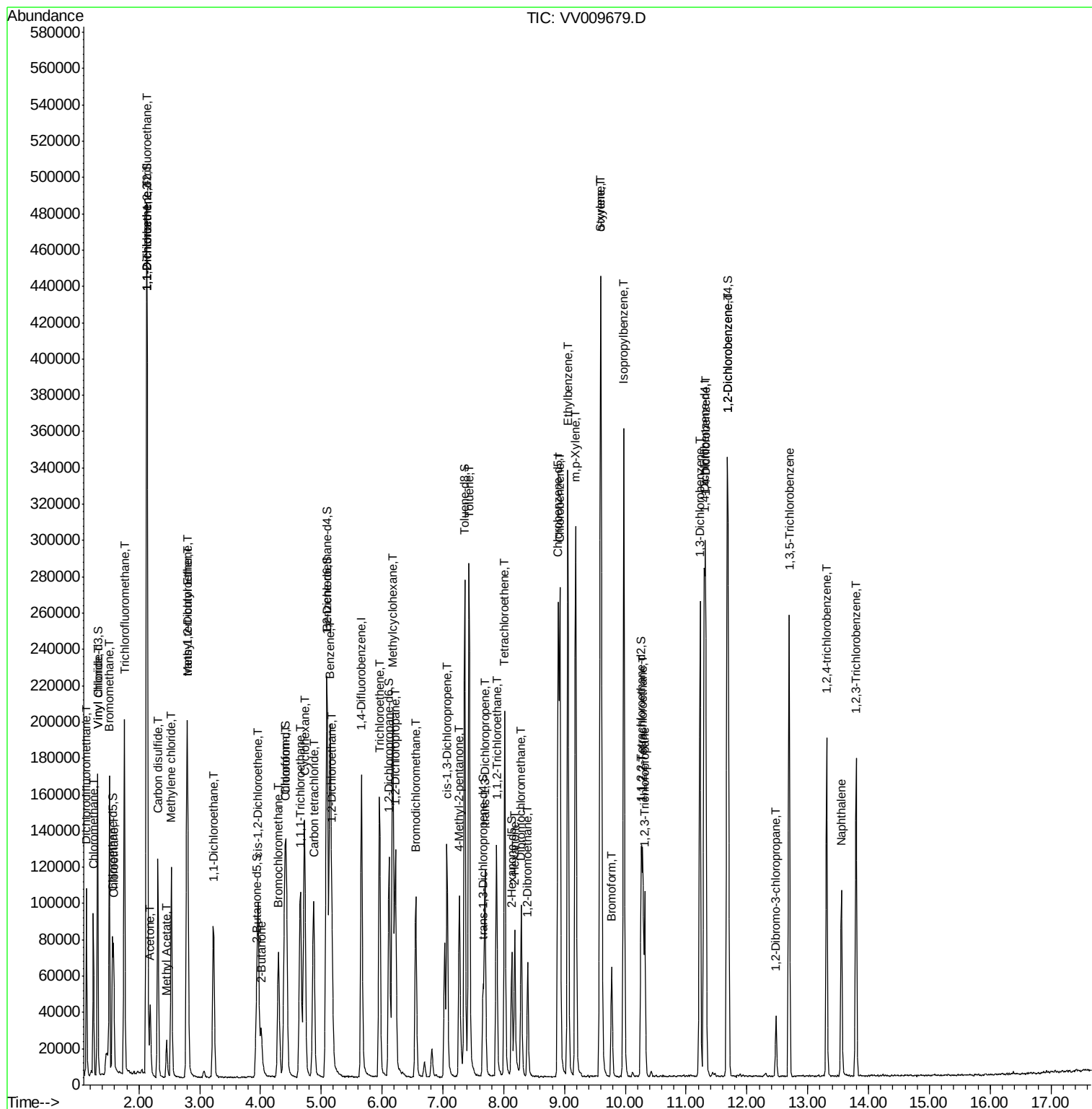
Quant Time: Mar 15 22:52:01 2019

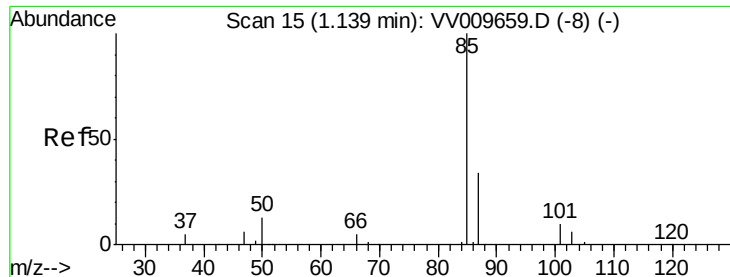
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_V\METHOD\S0M2VLM031319S.M

Quant Title : VOC Analysis

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

Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 23.833 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

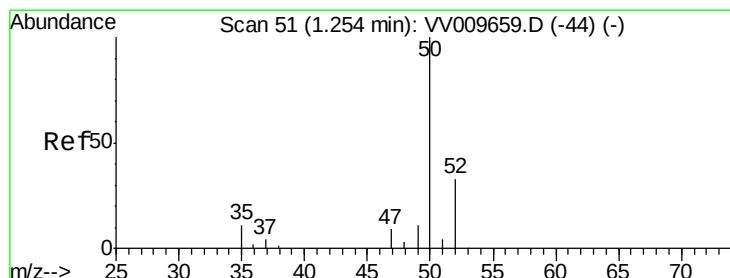
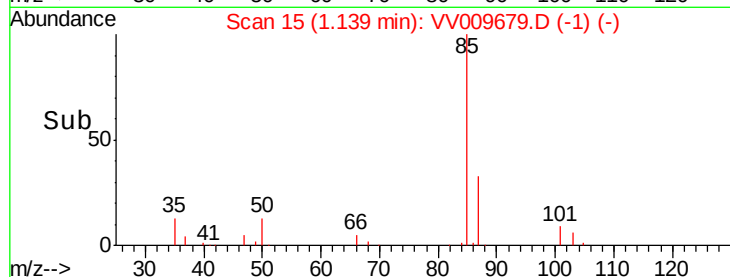
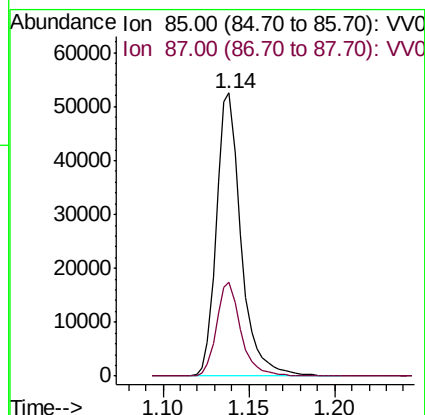
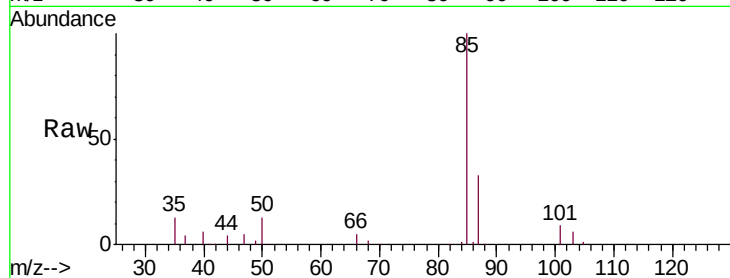
VSTD02562

Tgt Ion: 85 Resp: 52882

Ion Ratio Lower Upper

85 100

87 32.7 22.4 41.6



#3

Chloromethane

Concen: 23.308 ug/L

RT: 1.25 min Scan# 50

Delta R.T. -0.00 min

Lab File: VV009679.D

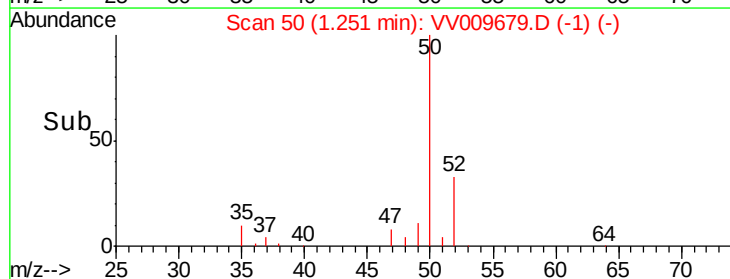
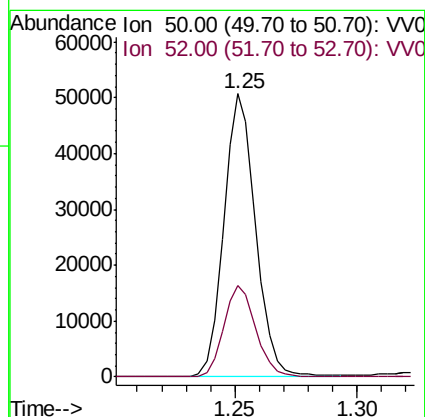
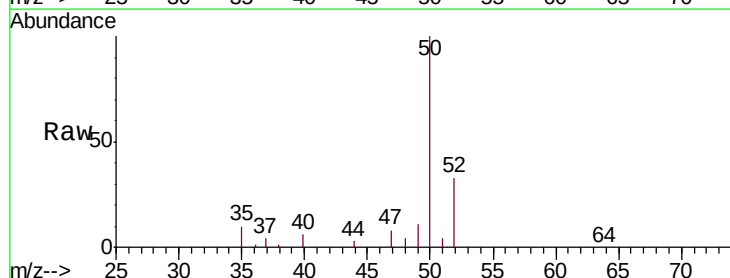
Acq: 15 Mar 2019 10:16

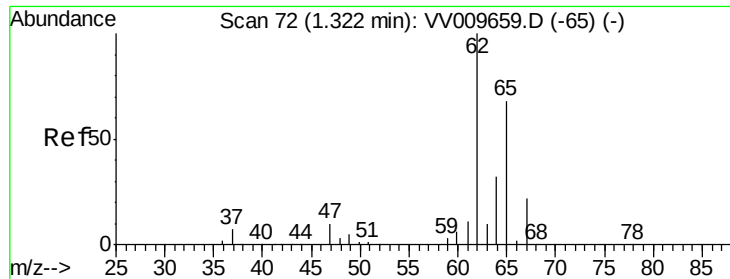
Tgt Ion: 50 Resp: 46077

Ion Ratio Lower Upper

50 100

52 32.5 22.9 42.5





#5

Vinyl chloride

Concen: 23.700 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

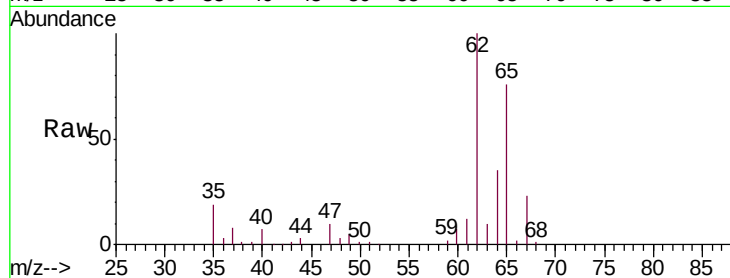
VSTD02562

Tgt Ion: 62 Resp: 50340

Ion Ratio Lower Upper

62 100

64 34.9 23.6 43.8



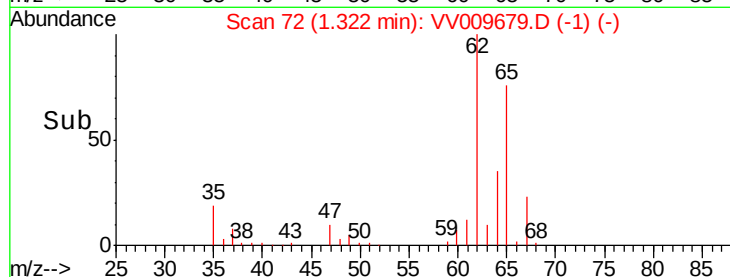
Abundance Ion 62.00 (61.70 to 62.70): VV009679.D (-65) (-)

Ion 64.00 (63.70 to 64.70): VV009679.D (-65) (-)

1.32

1.35

1.40



Abundance

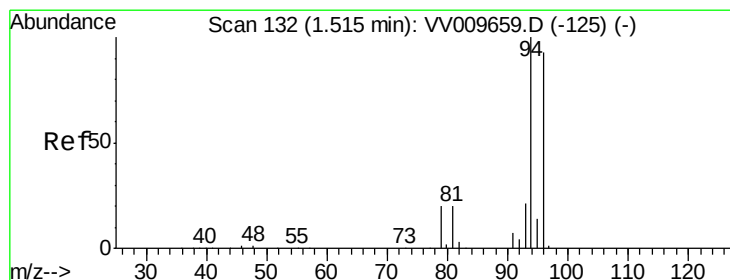
Ion 62.00 (61.70 to 62.70): VV009679.D (-1) (-)

Ion 64.00 (63.70 to 64.70): VV009679.D (-1) (-)

1.32

1.35

1.40



#6

Bromomethane

Concen: 21.484 ug/L

RT: 1.51 min Scan# 132

Delta R.T. 0.00 min

Lab File: VV009679.D

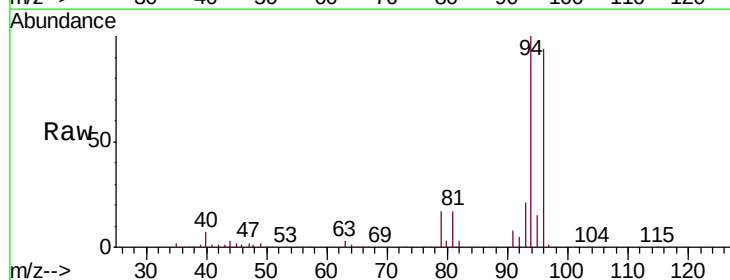
Acq: 15 Mar 2019 10:16

Tgt Ion: 94 Resp: 50503

Ion Ratio Lower Upper

94 100

96 93.5 9.4 178.2

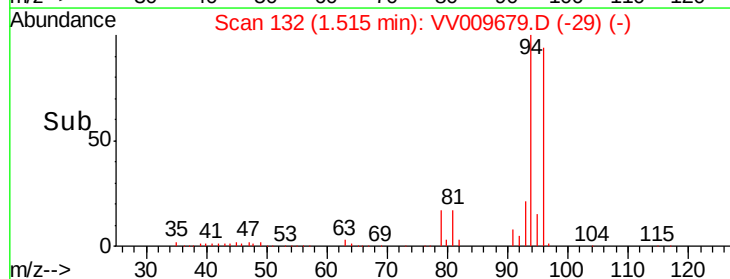


Abundance Ion 94.00 (93.70 to 94.70): VV009679.D (-125) (-)

Ion 96.00 (95.70 to 96.70): VV009679.D (-125) (-)

1.51

1.55



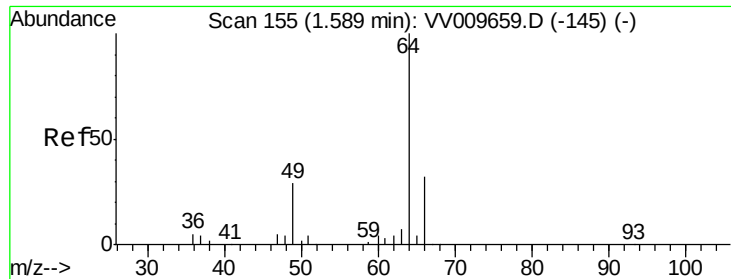
Abundance

Ion 94.00 (93.70 to 94.70): VV009679.D (-29) (-)

Ion 96.00 (95.70 to 96.70): VV009679.D (-29) (-)

1.51

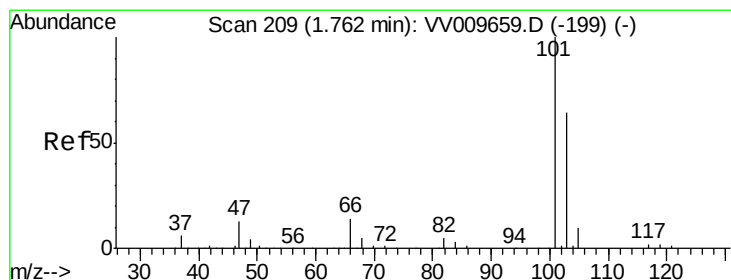
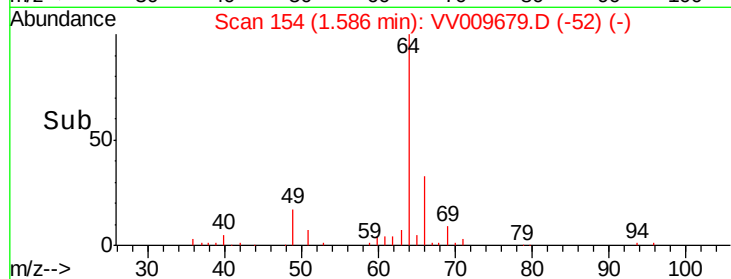
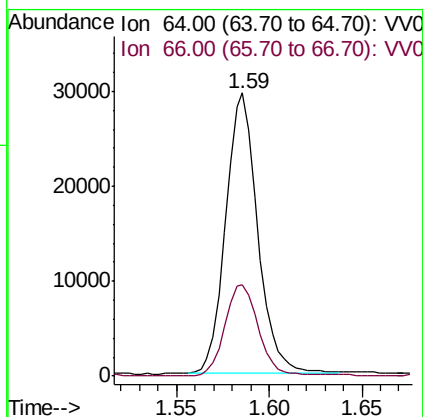
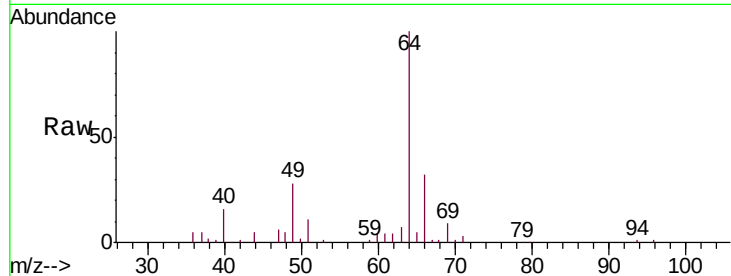
1.55



#8
Chloroethane
Concen: 19.307 ug/L
RT: 1.59 min Scan# 154
Delta R.T. -0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

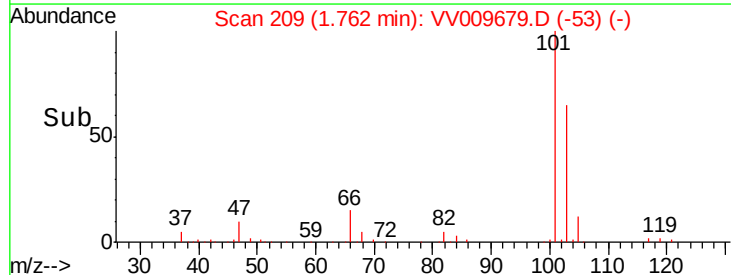
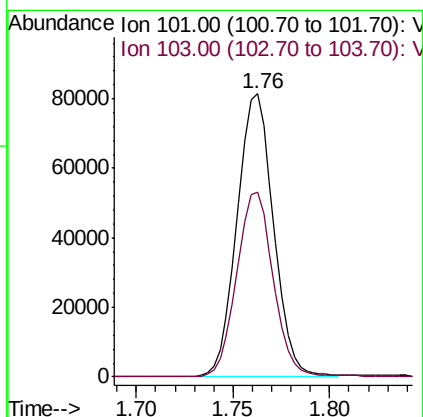
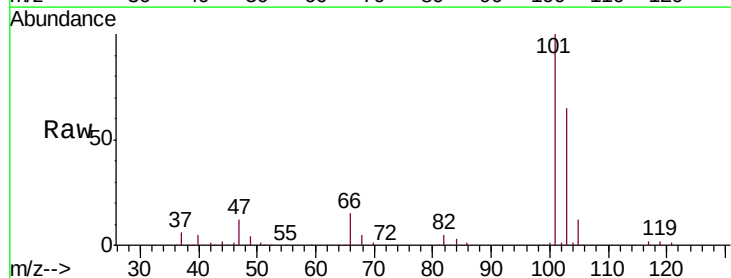
Instrument :
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ClientSampleId :
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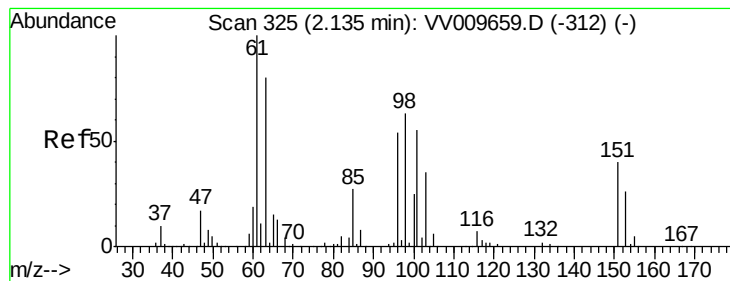
Tgt Ion: 64 Resp: 35215
Ion Ratio Lower Upper
64 100
66 32.4 23.0 42.8



#9
Trichlorofluoromethane
Concen: 23.806 ug/L
RT: 1.76 min Scan# 209
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Tgt Ion: 101 Resp: 107267
Ion Ratio Lower Upper
101 100
103 65.4 45.4 84.2





#11

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

Concen: 23.902 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

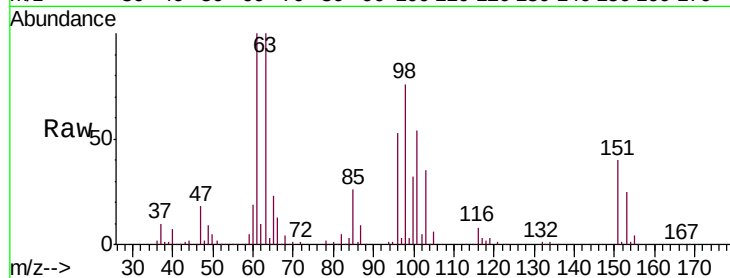
Tgt Ion:101 Resp: 58564

Ion Ratio Lower Upper

101 100

85 47.9 38.7 58.1

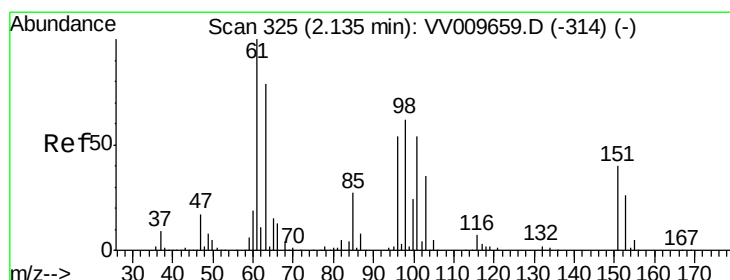
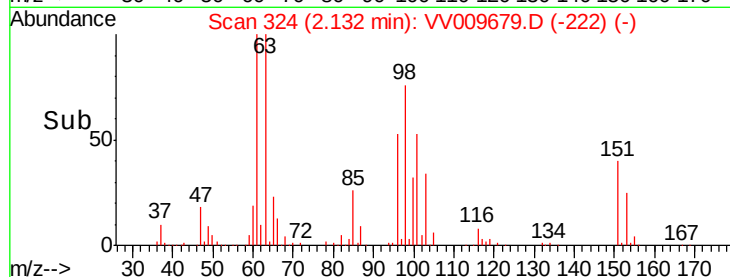
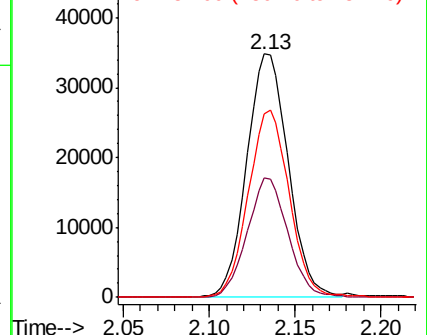
151 76.0 58.5 87.7



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: 23.933 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

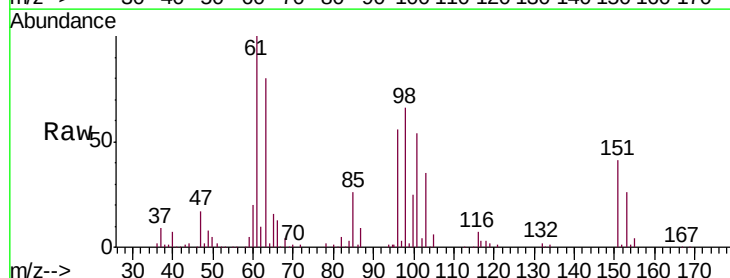
Tgt Ion: 96 Resp: 51445

Ion Ratio Lower Upper

96 100

61 179.0 128.4 238.5

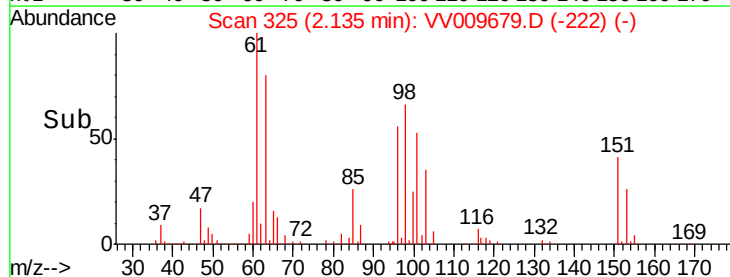
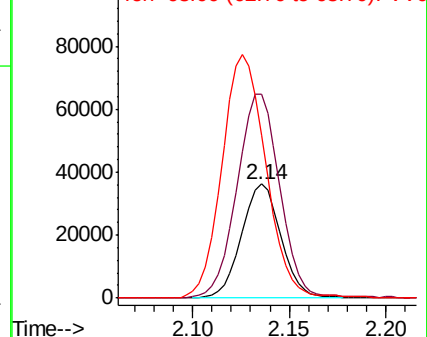
63 143.2 100.7 186.9

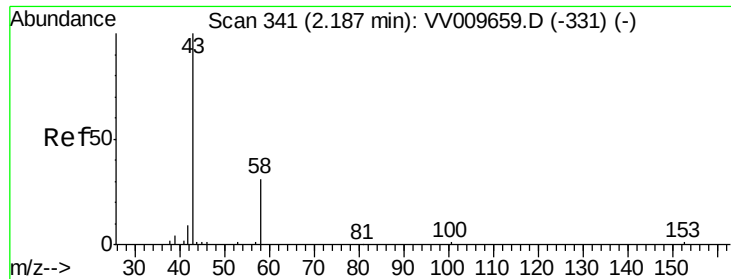


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 60.578 ug/L

RT: 2.19 min Scan# 341

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

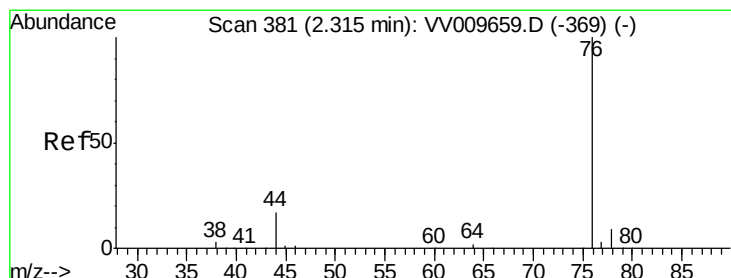
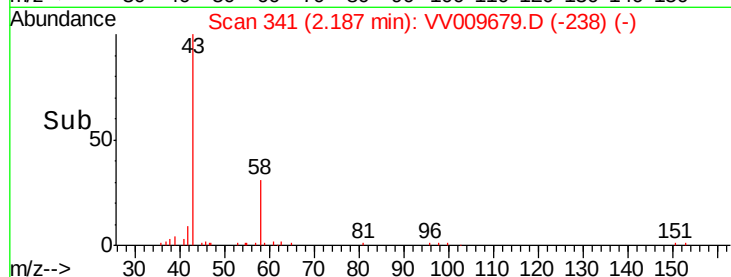
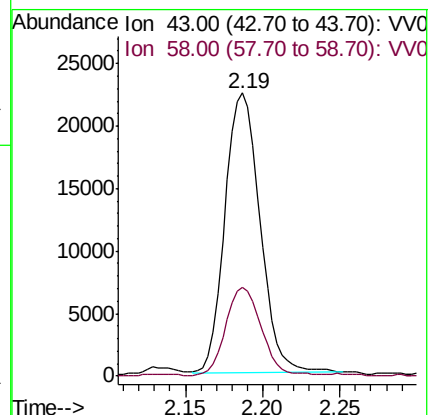
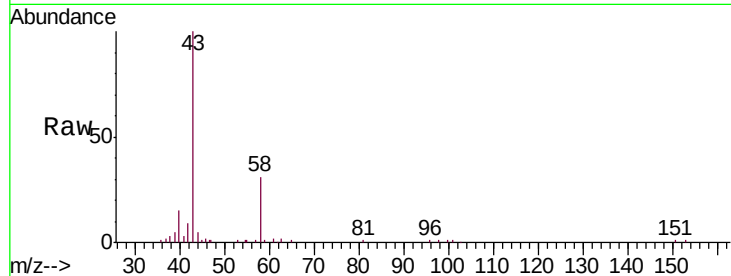
VSTD02562

Tgt Ion: 43 Resp: 35077

Ion Ratio Lower Upper

43 100

58 32.7 0.0 64.8



#14

Carbon disulfide

Concen: 24.291 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV009679.D

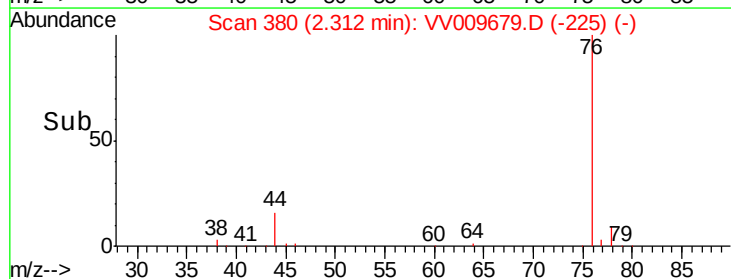
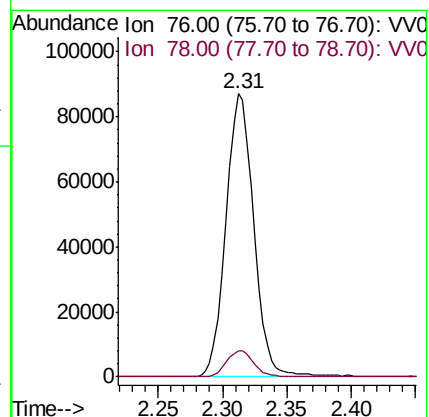
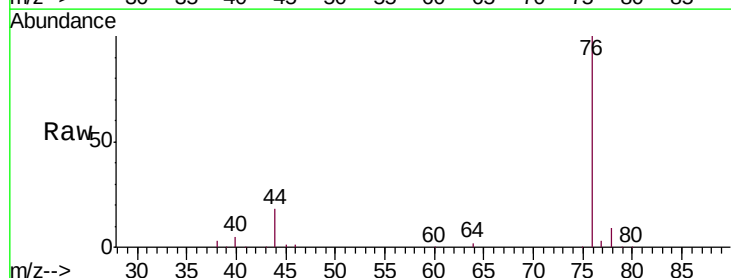
Acq: 15 Mar 2019 10:16

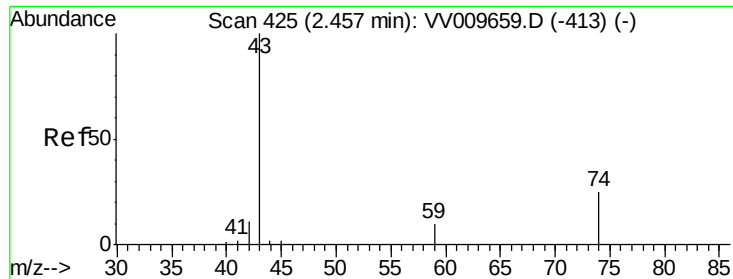
Tgt Ion: 76 Resp: 130759

Ion Ratio Lower Upper

76 100

78 9.2 7.3 10.9





#15

Methyl Acetate

Concen: 25.777 ug/L

RT: 2.46 min Scan# 425

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

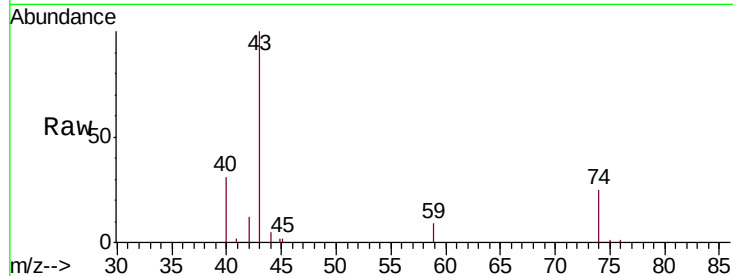
VSTD02562

Tgt Ion: 43 Resp: 21777

Ion Ratio Lower Upper

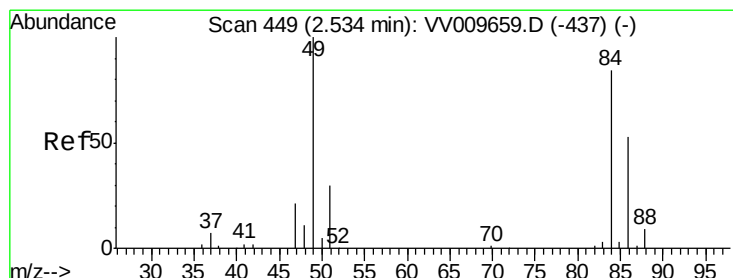
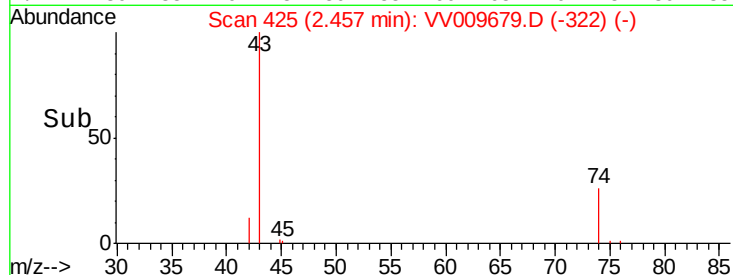
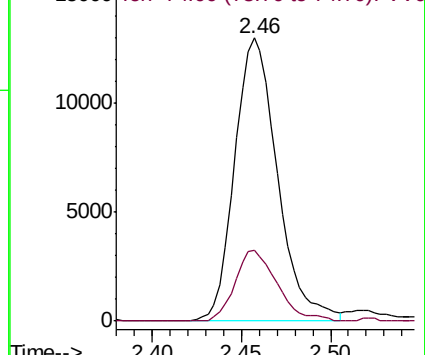
43 100

74 24.5 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VV009679.D (-322) (-)

Ion 74.00 (73.70 to 74.70): VV009679.D (-322) (-)



#16

Methylene chloride

Concen: 23.060 ug/L

RT: 2.53 min Scan# 449

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

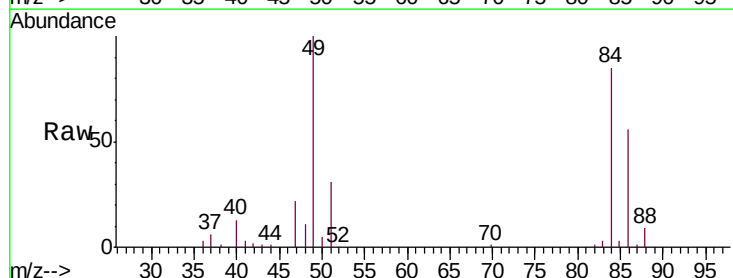
Tgt Ion: 84 Resp: 48143

Ion Ratio Lower Upper

84 100

49 117.6 86.1 159.9

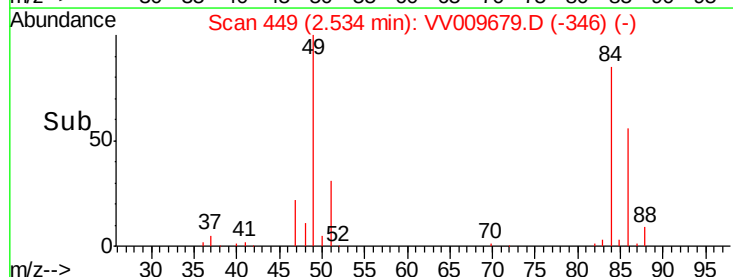
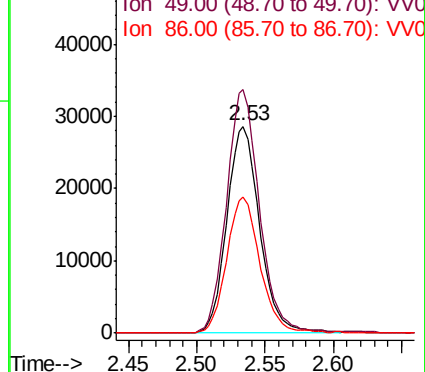
86 65.5 45.2 84.0

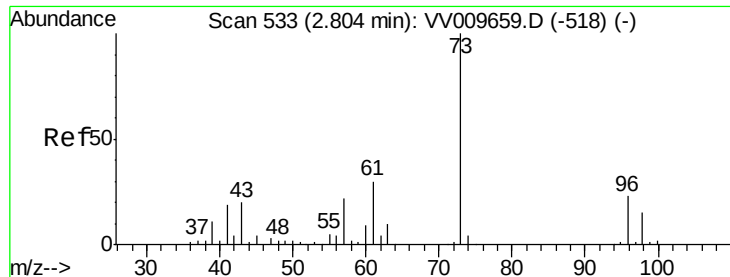


Abundance Ion 84.00 (83.70 to 84.70): VV009679.D (-346) (-)

Ion 49.00 (48.70 to 49.70): VV009679.D (-346) (-)

Ion 86.00 (85.70 to 86.70): VV009679.D (-346) (-)

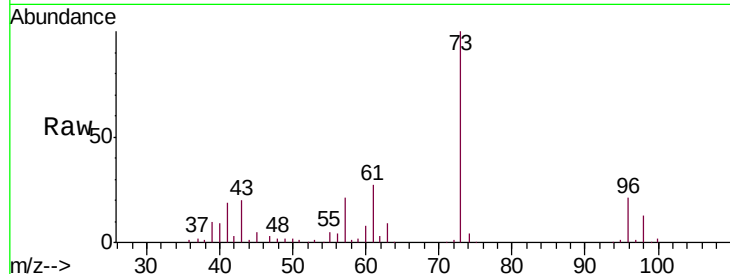




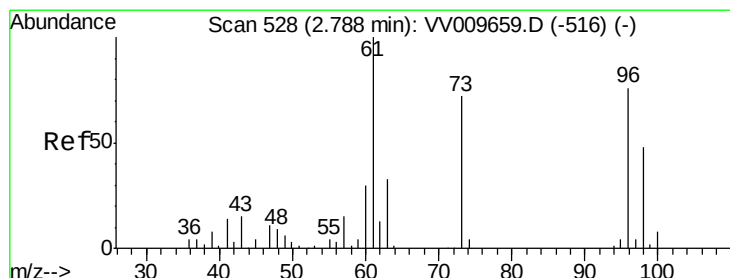
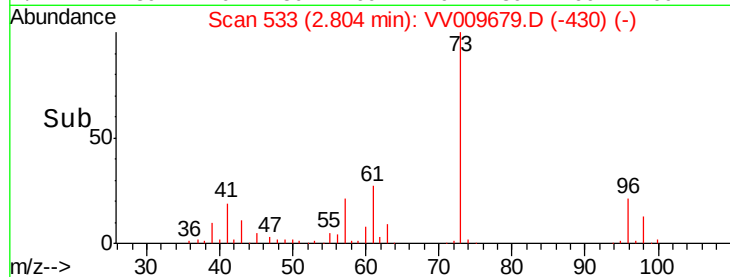
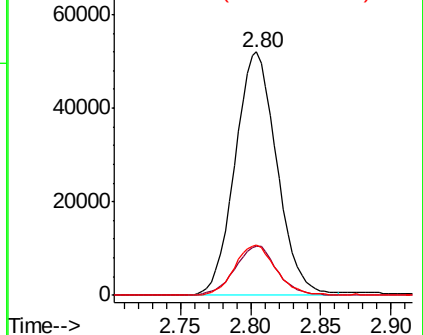
#17
Methyl tert-butyl Ether
Concen: 24.177 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Tgt Ion: 73 Resp: 107952
Ion Ratio Lower Upper
73 100
43 20.2 16.3 24.5
57 20.5 16.7 25.1

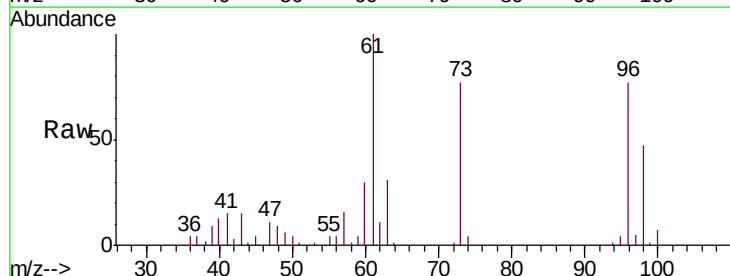


Abundance Ion 73.00 (72.70 to 73.70): VV0
Ion 43.00 (42.70 to 43.70): VV0
Ion 57.00 (56.70 to 57.70): VV0

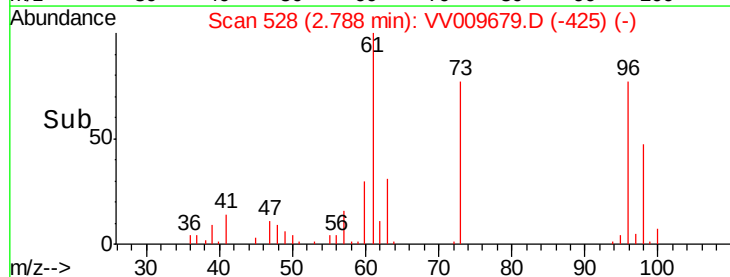
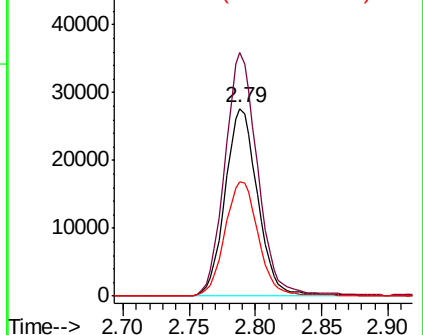


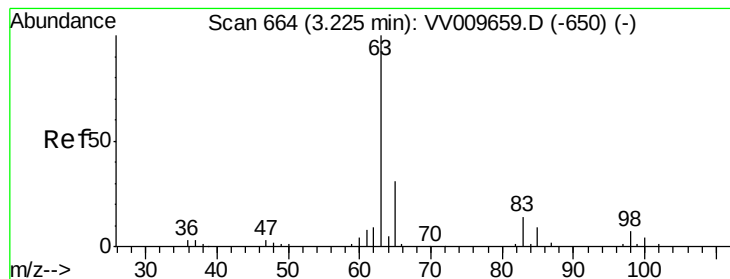
#18
trans-1,2-Dichloroethene
Concen: 25.285 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Tgt Ion: 96 Resp: 47375
Ion Ratio Lower Upper
96 100
61 129.7 94.4 175.2
98 61.2 45.4 84.4



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 25.254 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

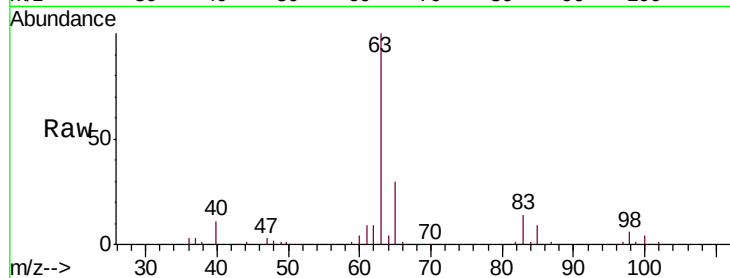
Tgt Ion: 63 Resp: 82587

Ion Ratio Lower Upper

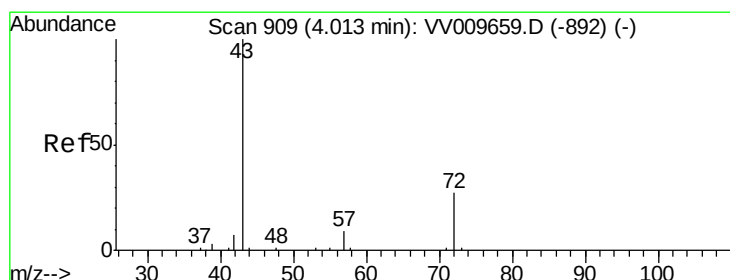
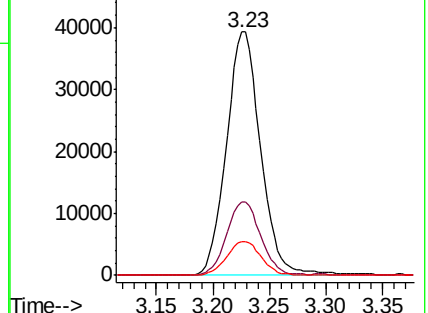
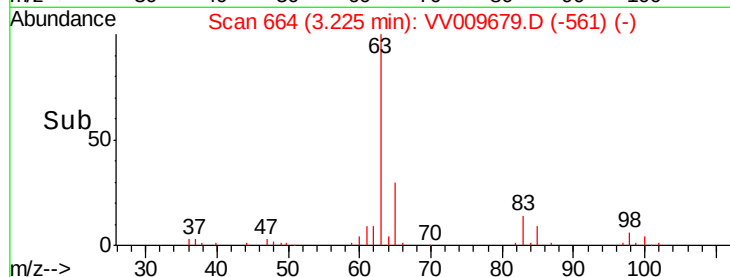
63 100

65 30.3 20.9 38.9

83 13.8 10.4 19.4



Abundance Ion 63.00 (62.70 to 63.70): VV009679.D (-650) (-)



#21

2-Butanone

Concen: 48.617 ug/L

RT: 4.01 min Scan# 909

Delta R.T. 0.00 min

Lab File: VV009679.D

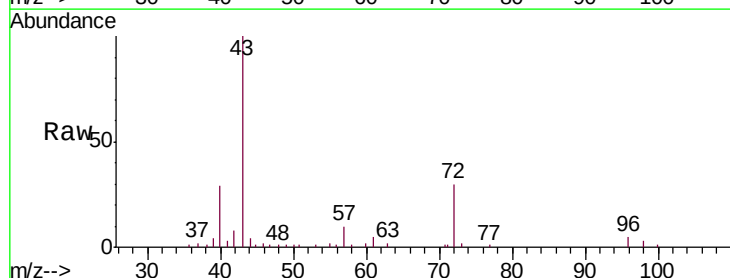
Acq: 15 Mar 2019 10:16

Tgt Ion: 43 Resp: 34754

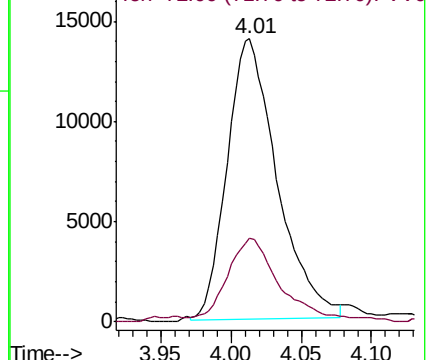
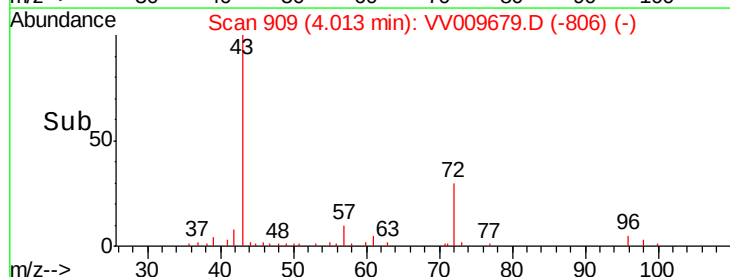
Ion Ratio Lower Upper

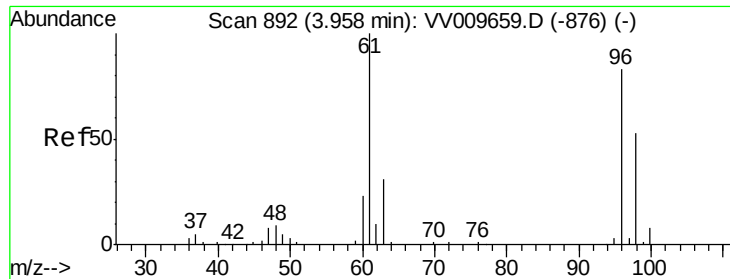
43 100

72 28.1 14.5 43.5



Abundance Ion 43.00 (42.70 to 43.70): VV009679.D (-892) (-)



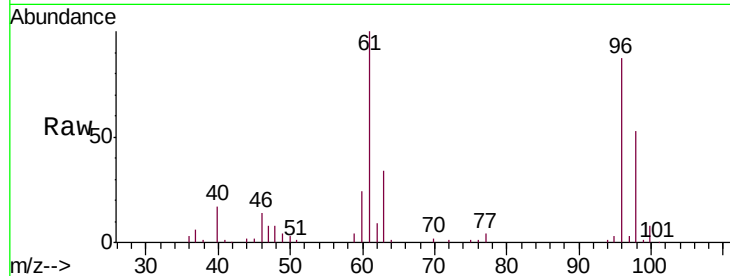


#22

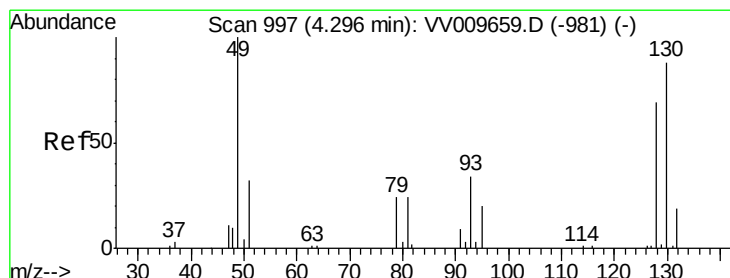
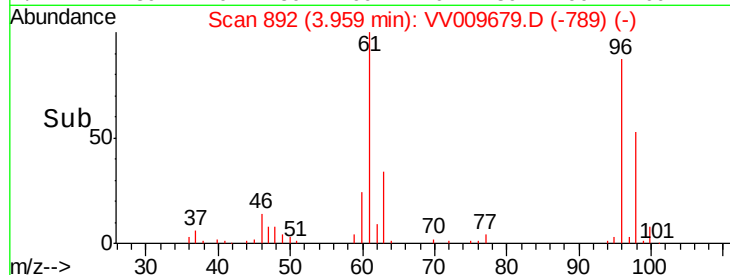
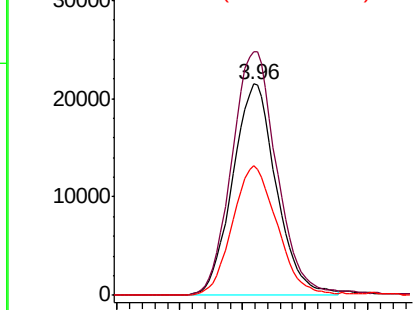
cis-1,2-Dichloroethene
Concen: 24.770 ug/L
RT: 3.96 min Scan# 892
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Tgt Ion: 96 Resp: 52006
Ion Ratio Lower Upper
96 100
61 115.2 86.2 160.0
98 61.2 46.5 86.3



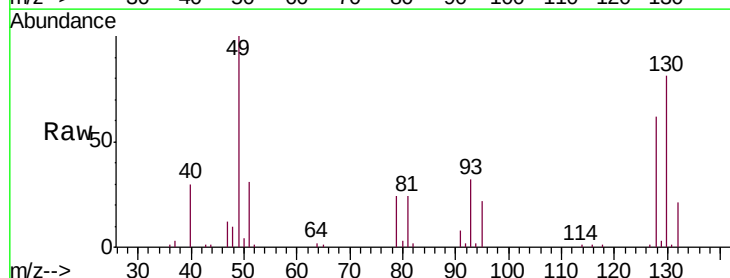
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.00 (60.70 to 61.70): VV0
Ion 98.00 (97.70 to 98.70): VV0



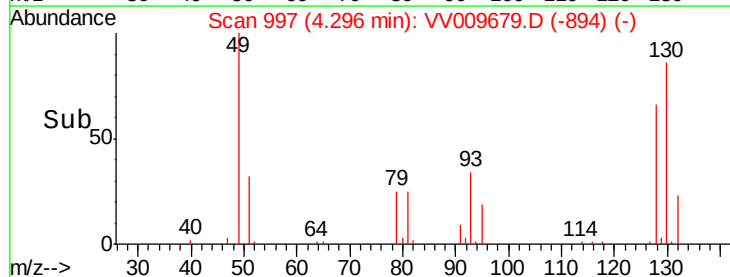
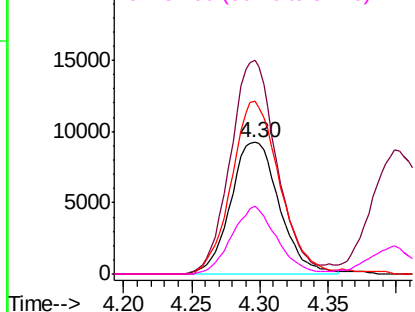
#23

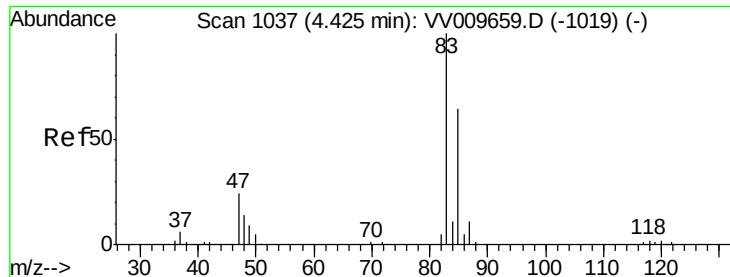
Bromochloromethane
Concen: 23.633 ug/L
RT: 4.30 min Scan# 997
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Tgt Ion: 128 Resp: 22940
Ion Ratio Lower Upper
128 100
49 162.4 110.0 204.2
130 130.9 90.4 168.0
51 51.2 38.1 57.1



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VV0
Ion 130.00 (129.70 to 130.70): V
Ion 51.00 (50.70 to 51.70): VV0

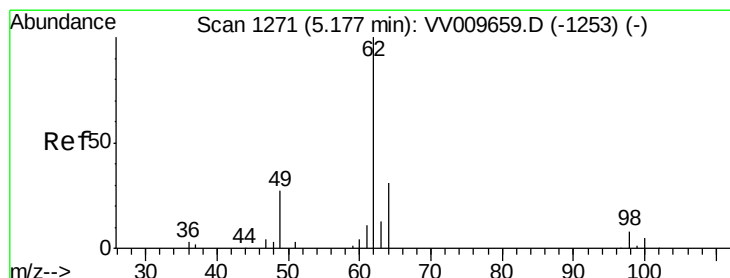
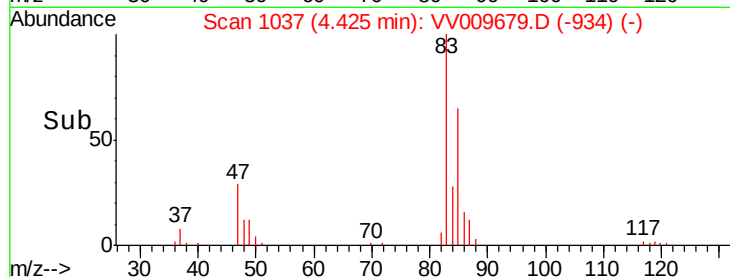
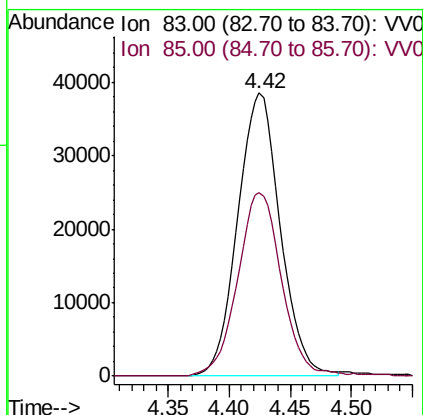
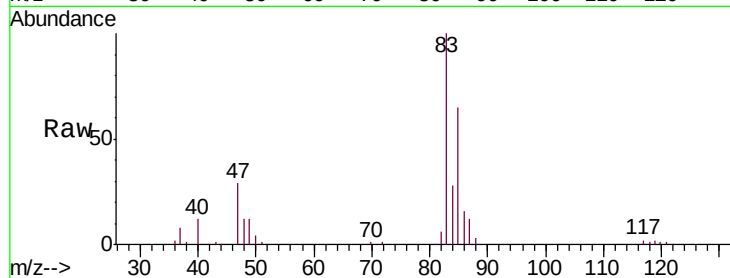




#25
Chloroform
Concen: 24.958 ug/L
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

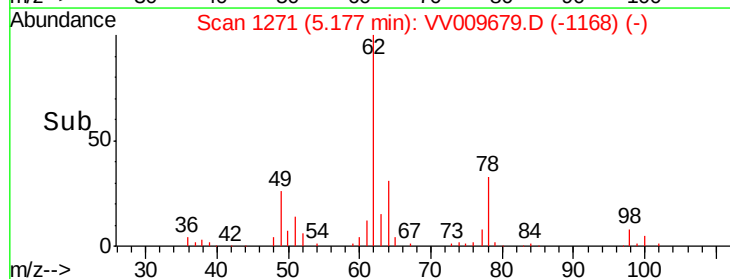
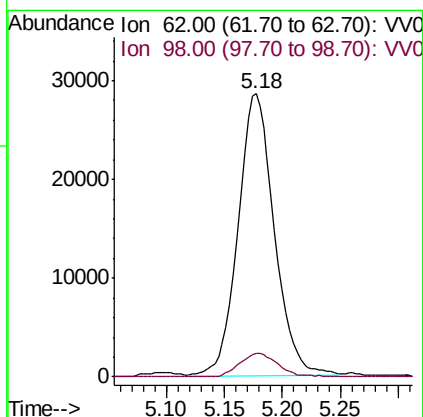
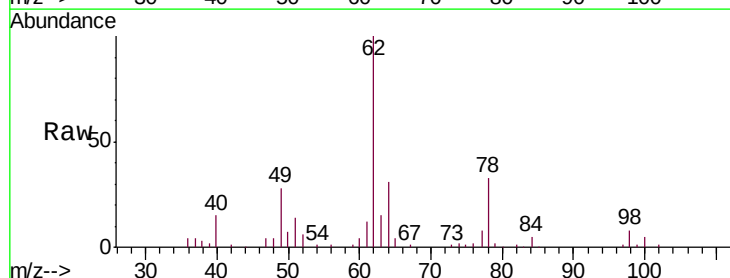
Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

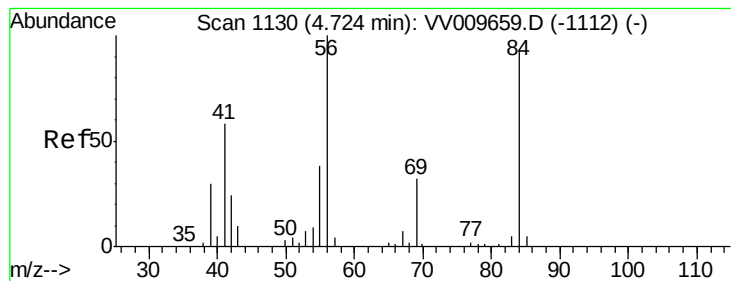
Tgt Ion: 83 Resp: 92998
Ion Ratio Lower Upper
83 100
85 66.5 46.4 86.2



#27
1,2-Dichloroethane
Concen: 24.123 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Tgt Ion: 62 Resp: 62066
Ion Ratio Lower Upper
62 100
98 8.4 7.2 10.8





#30

Cyclohexane

Concen: 23.796 ug/L

RT: 4.72 min Scan# 1130

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

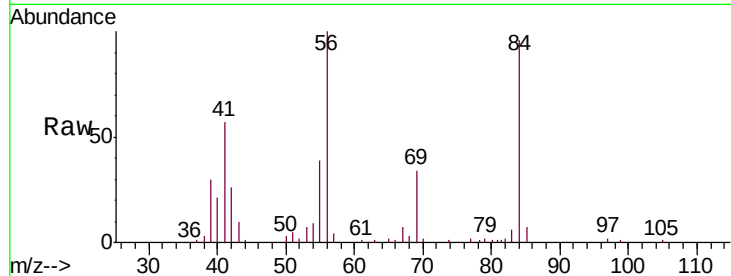
Tgt Ion: 56 Resp: 74428

Ion Ratio Lower Upper

56 100

69 32.2 25.4 38.0

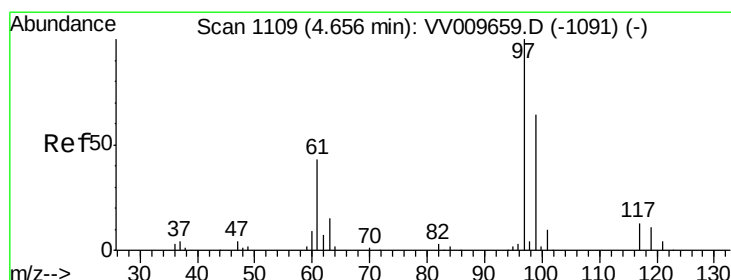
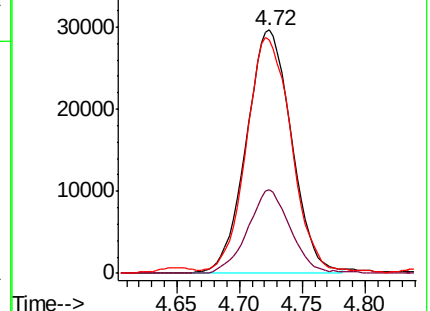
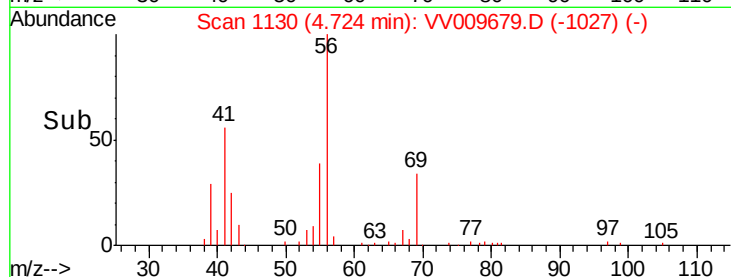
84 96.5 72.6 109.0



Abundance Ion 56.00 (55.70 to 56.70): VV009659.D (-1112) (-)

Ion 69.00 (68.70 to 69.70): VV009659.D (-1112) (-)

Ion 84.00 (83.70 to 84.70): VV009659.D (-1112) (-)



#31

1,1,1-Trichloroethane

Concen: 24.879 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

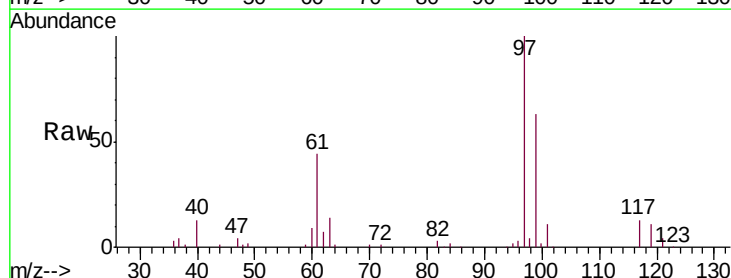
Tgt Ion: 97 Resp: 80661

Ion Ratio Lower Upper

97 100

99 65.0 51.0 76.6

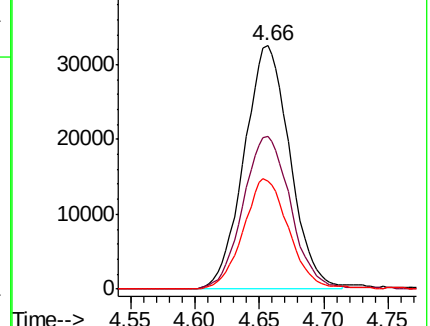
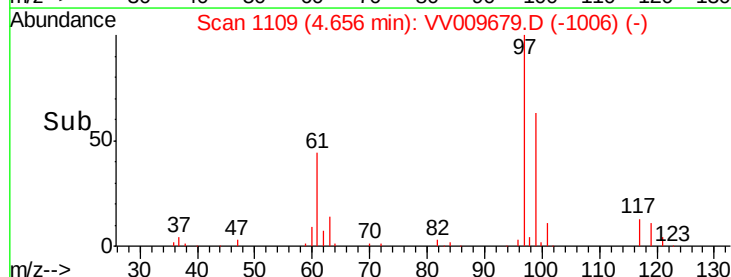
61 44.5 33.7 50.5

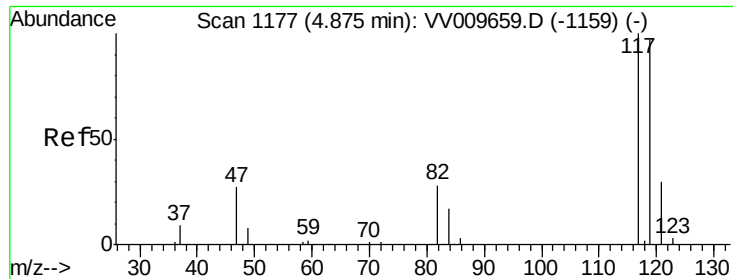


Abundance Ion 97.00 (96.70 to 97.70): VV009659.D (-1091) (-)

Ion 99.00 (98.70 to 99.70): VV009659.D (-1091) (-)

Ion 61.00 (60.70 to 61.70): VV009659.D (-1091) (-)





#32

Carbon tetrachloride

Concen: 25.295 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. -0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

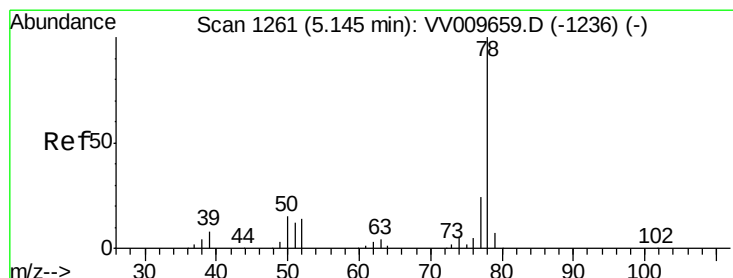
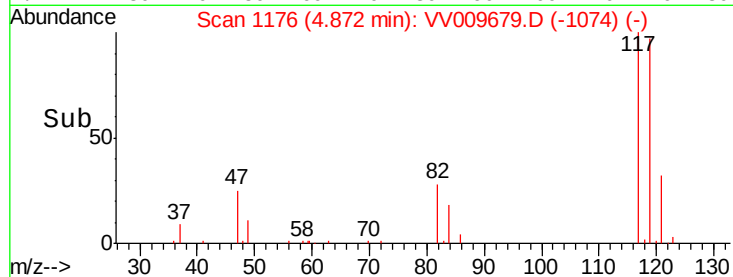
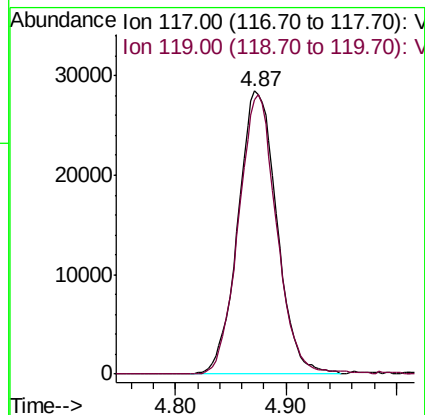
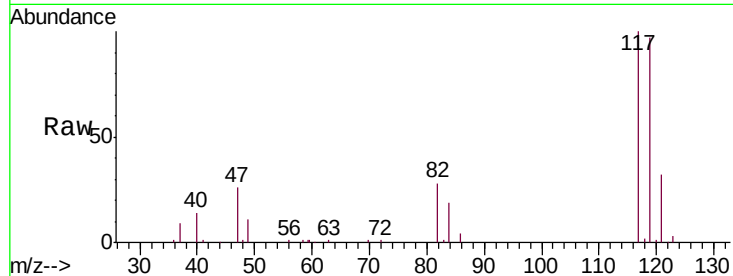
VSTD02562

Tgt Ion:117 Resp: 69488

Ion Ratio Lower Upper

117 100

119 95.7 76.6 114.8



#34

Benzene

Concen: 24.140 ug/L

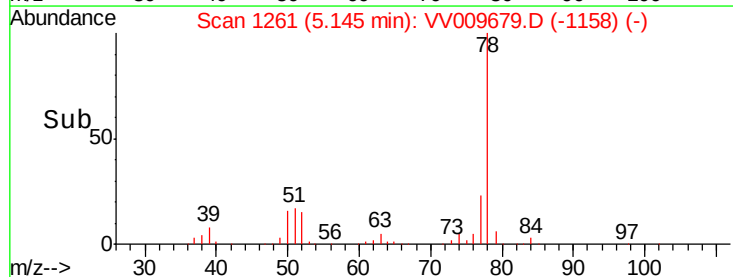
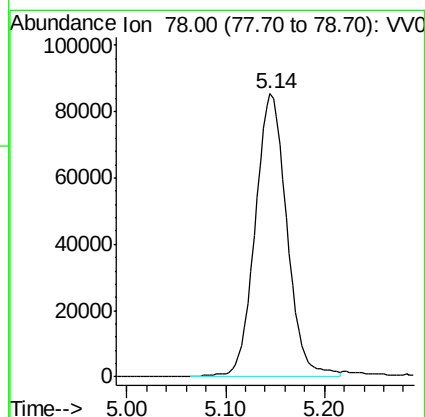
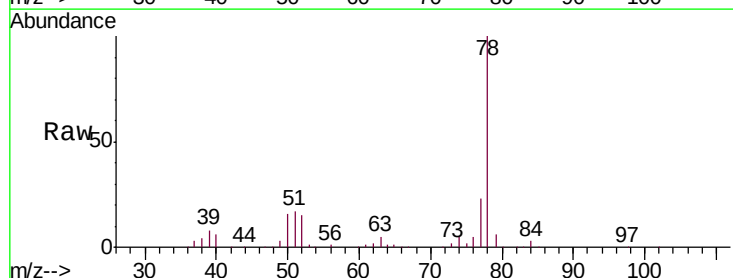
RT: 5.14 min Scan# 1261

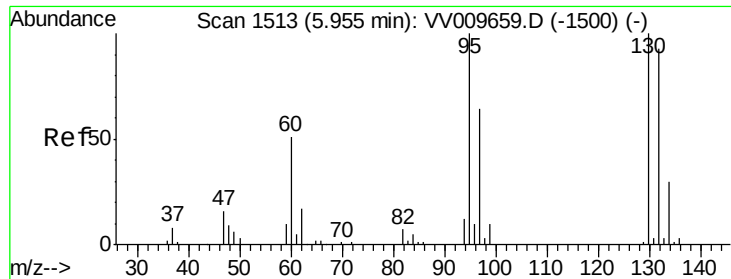
Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Tgt Ion: 78 Resp: 189471

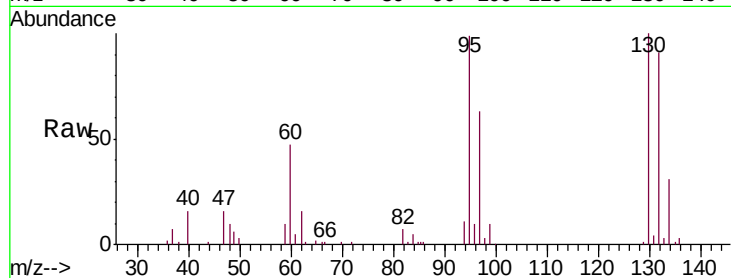




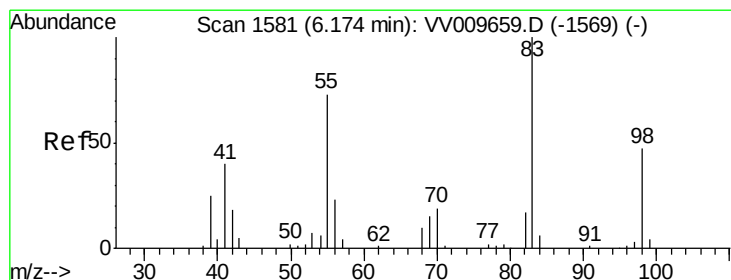
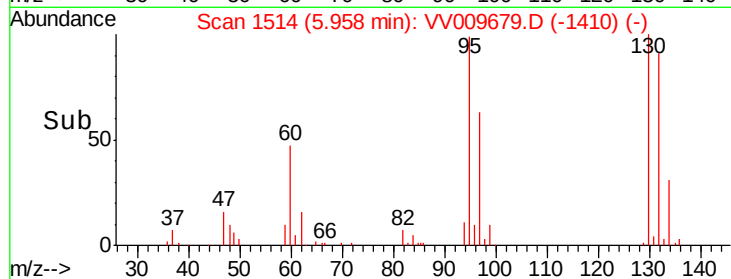
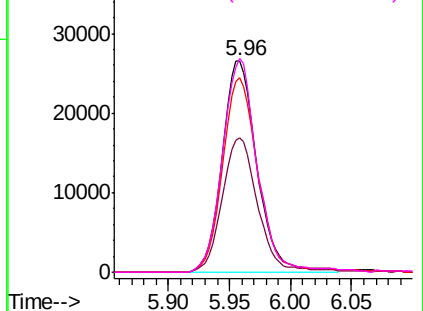
#35
 Trichloroethene
 Concen: 24.408 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion: 95 Resp: 53195
 Ion Ratio Lower Upper
 95 100
 97 64.1 44.9 83.5
 132 92.5 66.4 123.2
 130 99.7 70.2 130.4

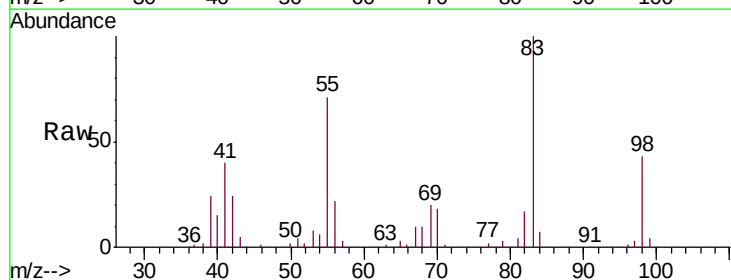


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 97.00 (96.70 to 97.70): VV0
 Ion 132.00 (131.70 to 132.70): VV0
 Ion 130.00 (129.70 to 130.70): VV0

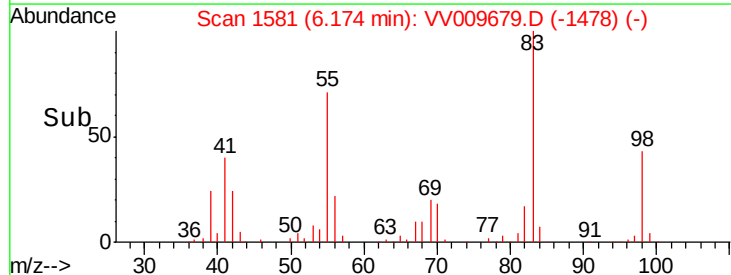
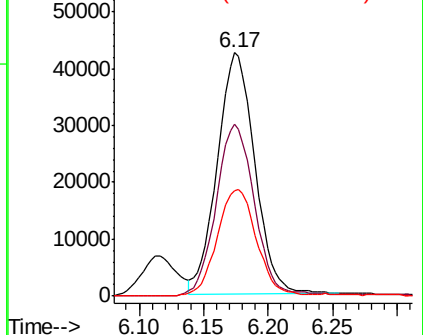


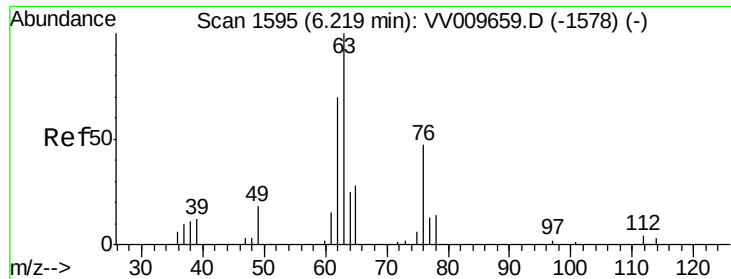
#36
 Methylcyclohexane
 Concen: 23.763 ug/L
 RT: 6.17 min Scan# 1581
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion: 83 Resp: 86001
 Ion Ratio Lower Upper
 83 100
 55 73.1 57.4 86.0
 98 45.9 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

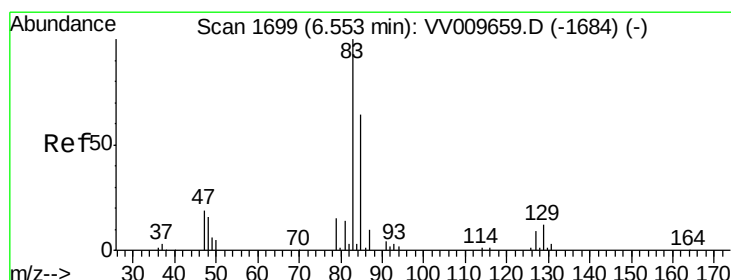
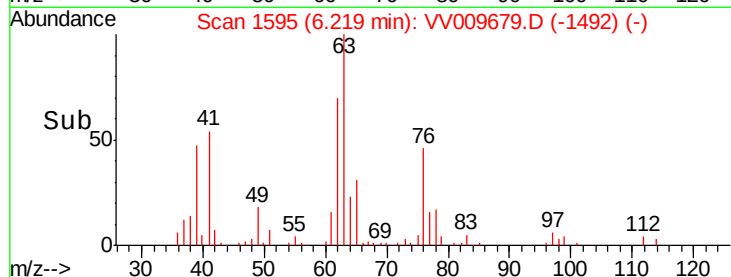
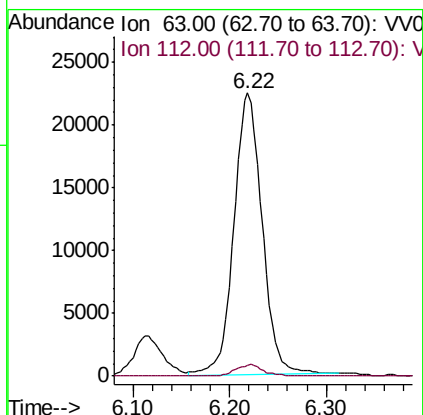
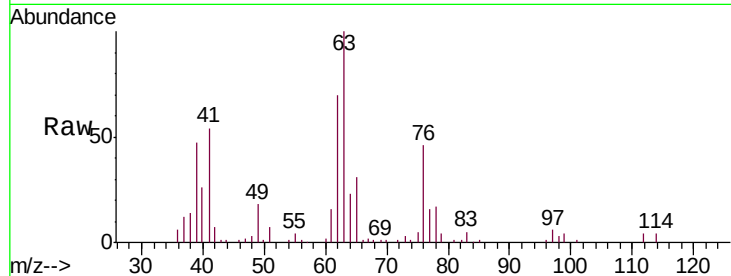




#40
 1,2-Dichloropropane
 Concen: 23.830 ug/L
 RT: 6.22 min Scan# 1595
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

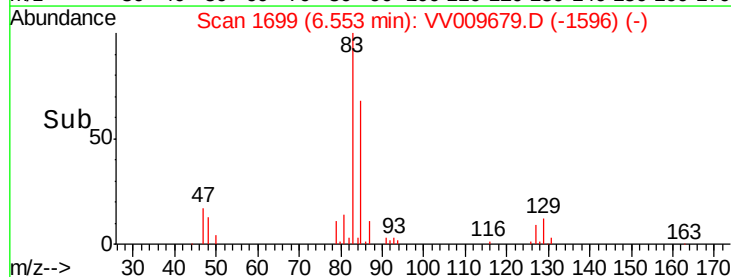
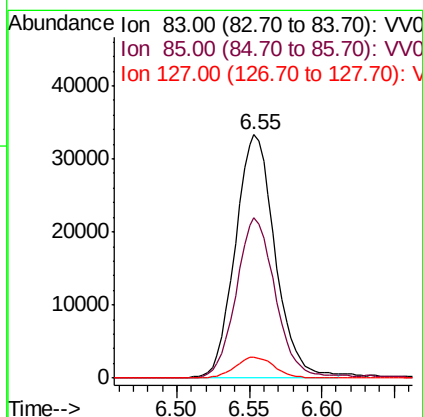
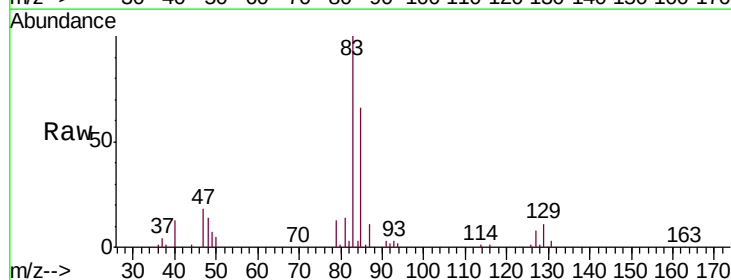
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

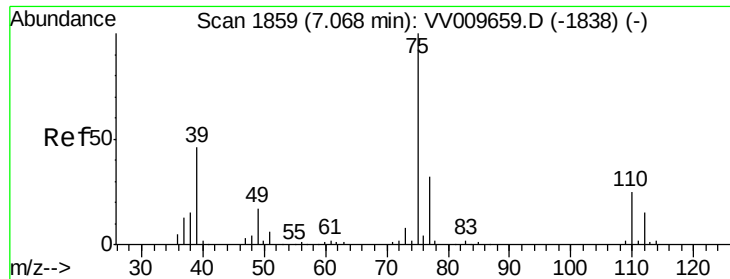
Tgt Ion: 63 Resp: 45442
 Ion Ratio Lower Upper
 63 100
 112 3.9 3.2 4.8



#41
 Bromodichloromethane
 Concen: 24.069 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion: 83 Resp: 63149
 Ion Ratio Lower Upper
 83 100
 85 65.9 44.4 82.4
 127 8.4 6.7 10.1



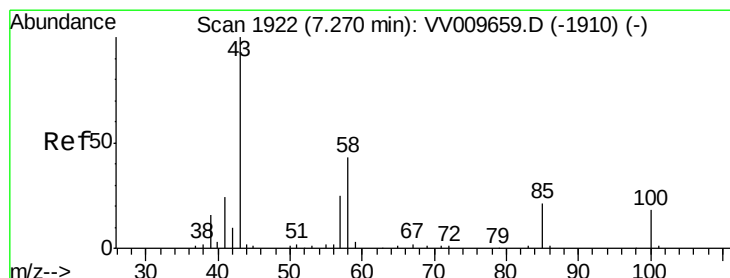
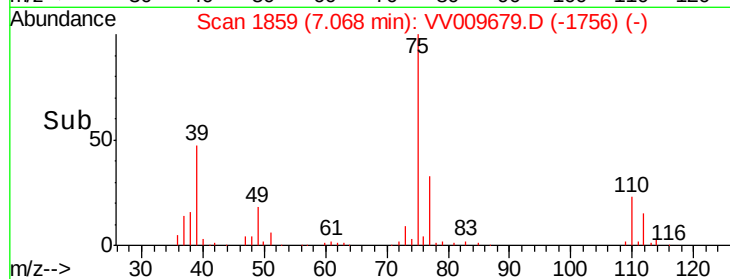
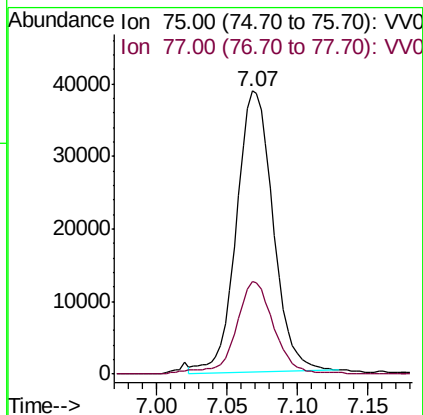
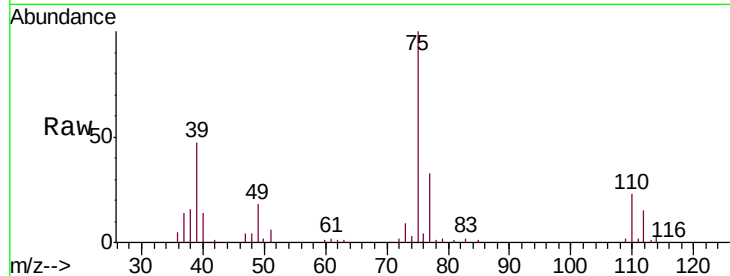


#42

cis-1,3-Dichloropropene
 Concen: 24.378 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

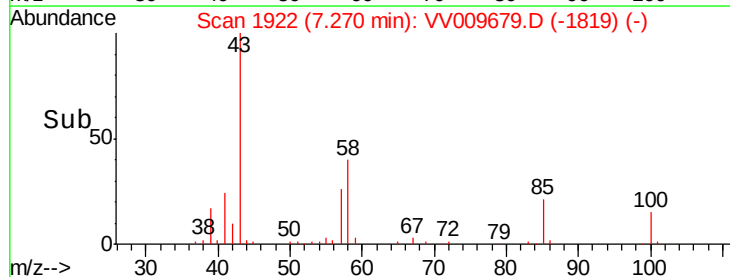
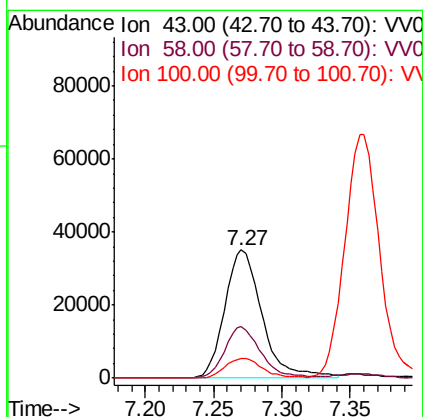
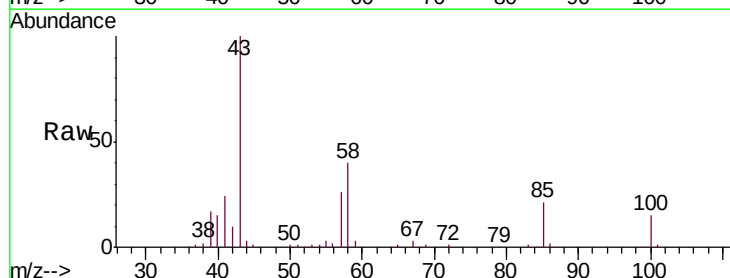
Tgt Ion: 75 Resp: 70581
 Ion Ratio Lower Upper
 75 100
 77 32.6 22.0 40.8

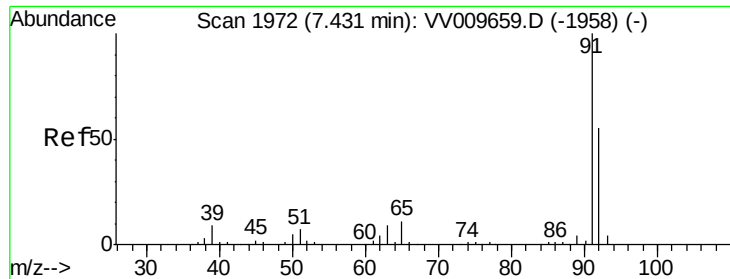


#43

4-Methyl-2-pentanone
 Concen: 51.160 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion: 43 Resp: 66711
 Ion Ratio Lower Upper
 43 100
 58 38.9 30.9 46.3
 100 15.6 11.8 17.6





#44

Toluene

Concen: 24.361 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

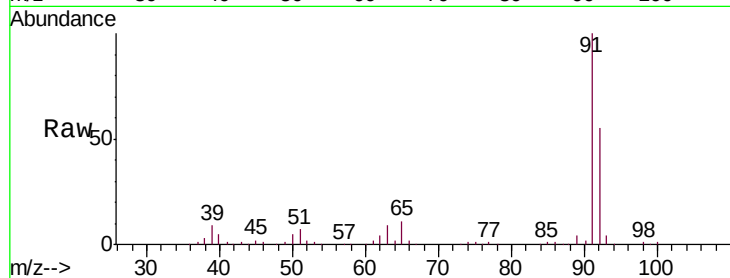
VSTD02562

Tgt Ion: 91 Resp: 212971

Ion Ratio Lower Upper

91 100

92 55.5 39.5 73.4



Abundance Ion 91.00 (90.70 to 91.70): VV009659.D (-1958) (-)

Ion 92.00 (91.70 to 92.70): VV009659.D (-1958) (-)

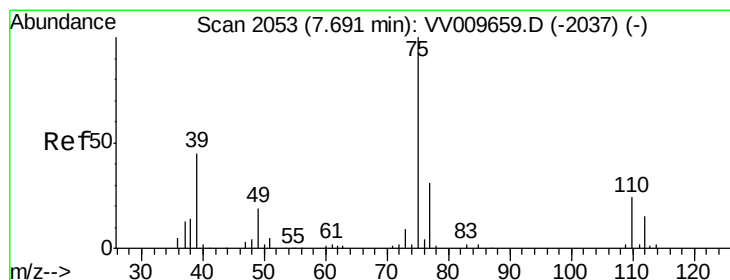
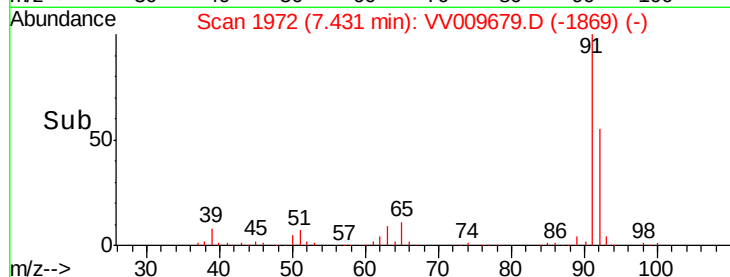
7.43

100000

50000

0

Time-->



#45

trans-1,3-Dichloropropene

Concen: 24.225 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV009679.D

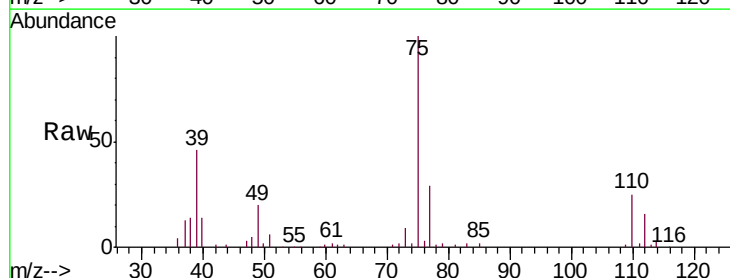
Acq: 15 Mar 2019 10:16

Tgt Ion: 75 Resp: 60567

Ion Ratio Lower Upper

75 100

77 29.1 22.0 40.8



Abundance Ion 75.00 (74.70 to 75.70): VV009659.D (-2037) (-)

Ion 77.00 (76.70 to 77.70): VV009659.D (-2037) (-)

7.69

40000

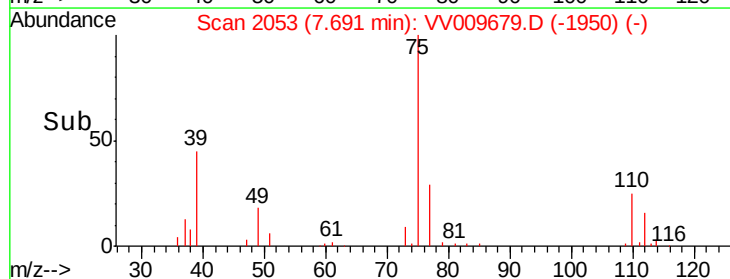
30000

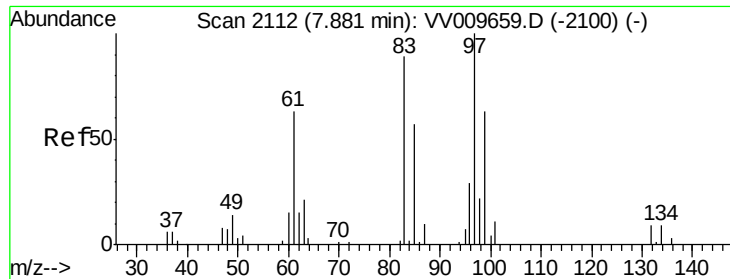
20000

10000

0

Time-->

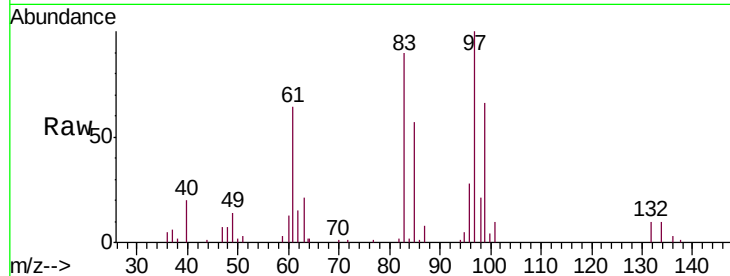




#46
 1,1,2-Trichloroethane
 Concen: 24.398 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

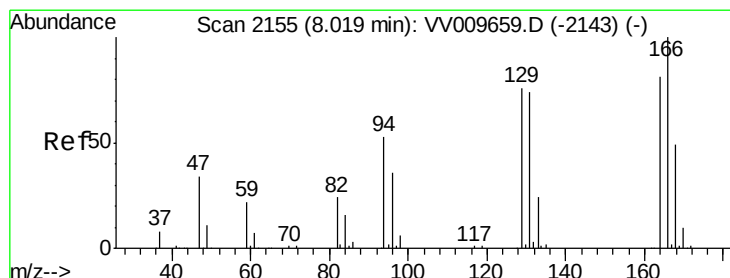
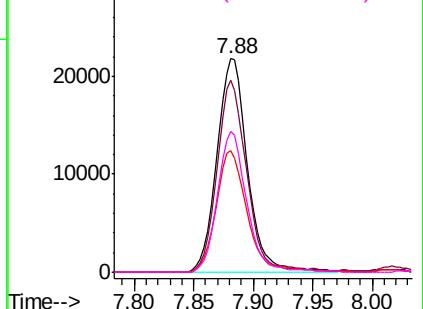
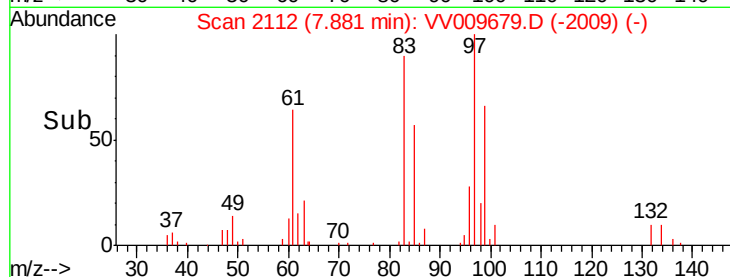
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:	97	Resp:	38873
Ion	Ratio	Lower	Upper
97	100		
83	90.0	62.9	116.7
85	57.2	40.0	74.2
99	66.0	44.9	83.3



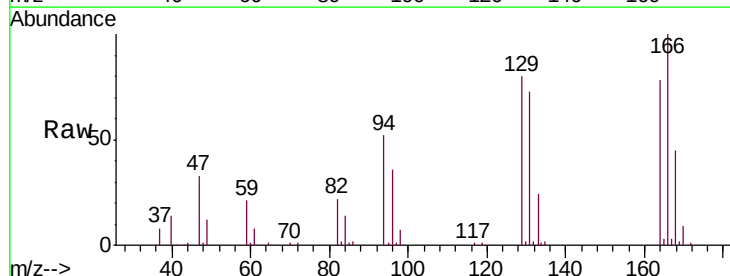
Abundance

Ion 97.00 (96.70 to 97.70): VV009679.D (-2099) (-)



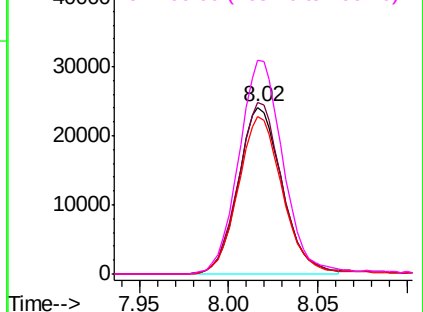
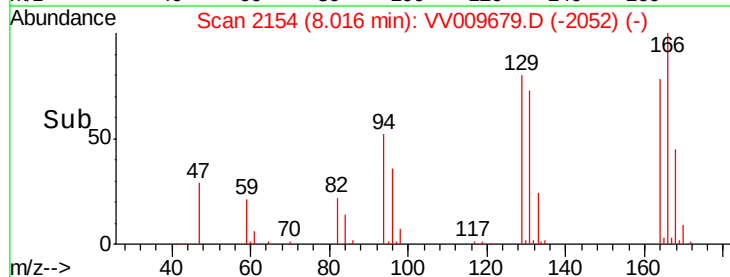
#47
 Tetrachloroethene
 Concen: 24.161 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. -0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

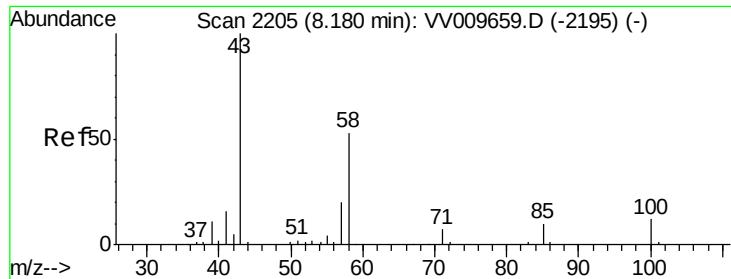
Tgt Ion:	164	Resp:	41595
Ion	Ratio	Lower	Upper
164	100		
129	102.7	69.0	128.1
131	93.9	65.7	122.1
166	127.9	89.4	166.0



Abundance

Ion 164.00 (163.70 to 164.70): VV009679.D (-2052) (-)

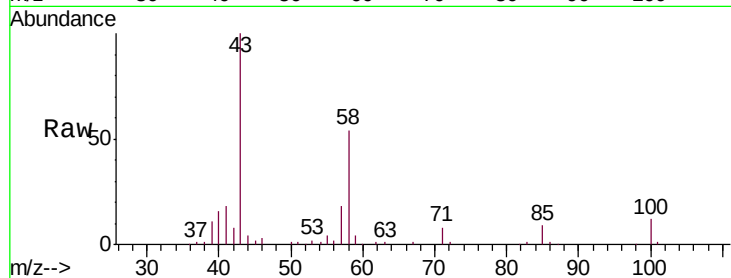




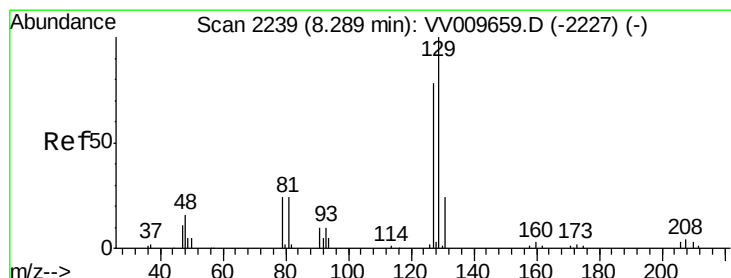
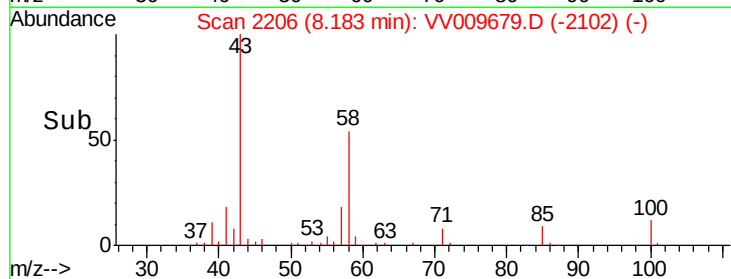
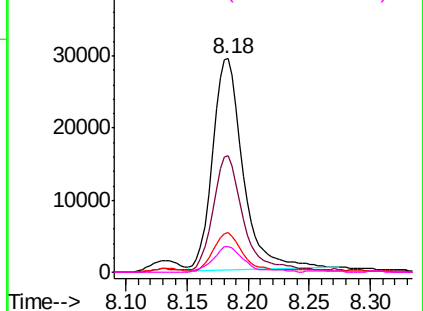
#49
2-Hexanone
Concen: 52.788 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Instrument :
MSVOA_V
ClientSampleId :
VSTD02562

Tgt Ion: 43 Resp: 51696
Ion Ratio Lower Upper
43 100
58 56.4 44.9 67.3
57 17.0 14.5 21.7
100 11.8 9.3 13.9

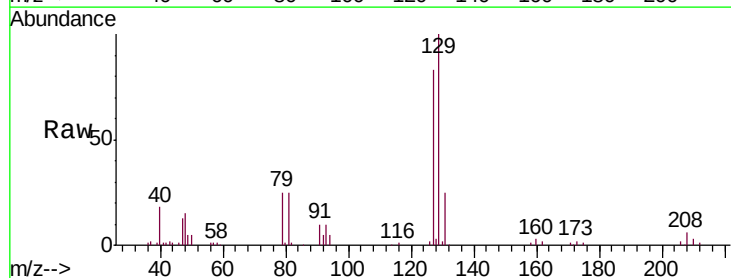


Abundance Ion 43.00 (42.70 to 43.70): VV009679.D (-2195) (-)
Ion 58.00 (57.70 to 58.70): VV009679.D (-2195) (-)
Ion 57.00 (56.70 to 57.70): VV009679.D (-2195) (-)
Ion 100.00 (99.70 to 100.70): VV009679.D (-2195) (-)

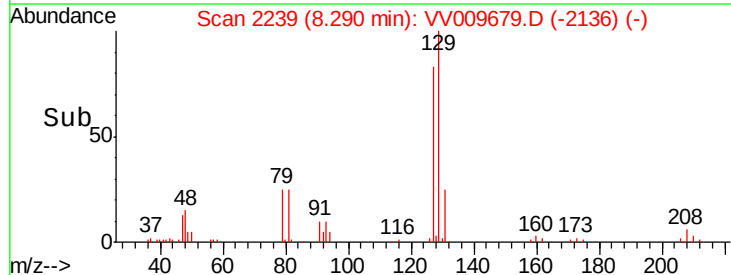
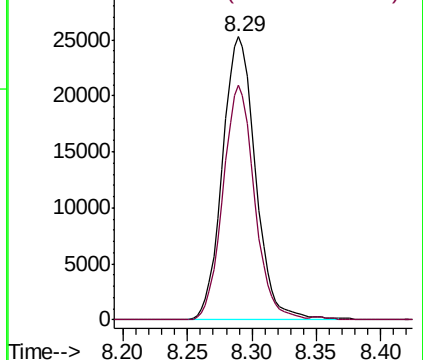


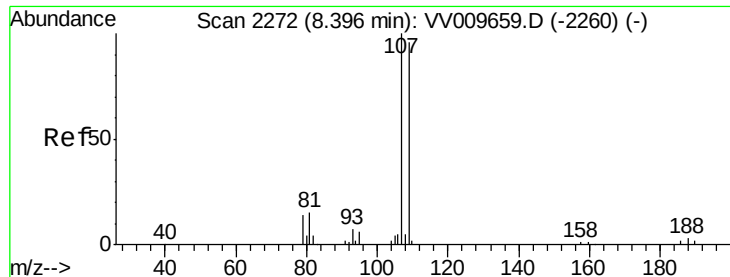
#50
Dibromochloromethane
Concen: 24.923 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV009679.D
Acq: 15 Mar 2019 10:16

Tgt Ion: 129 Resp: 45034
Ion Ratio Lower Upper
129 100
127 82.7 55.4 102.8



Abundance Ion 129.00 (128.70 to 129.70): VV009679.D (-2227) (-)
Ion 127.00 (126.70 to 127.70): VV009679.D (-2227) (-)





#51

1,2-Dibromoethane

Concen: 24.799 ug/L

RT: 8.40 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

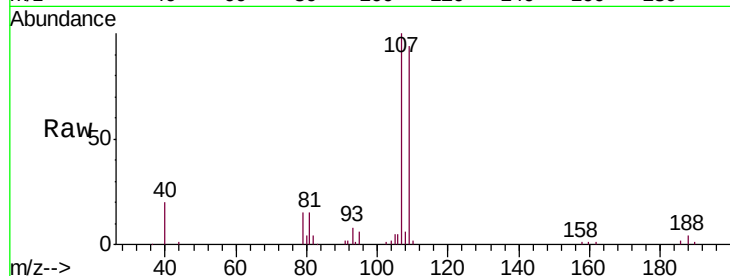
Tgt Ion:107 Resp: 39136

Ion Ratio Lower Upper

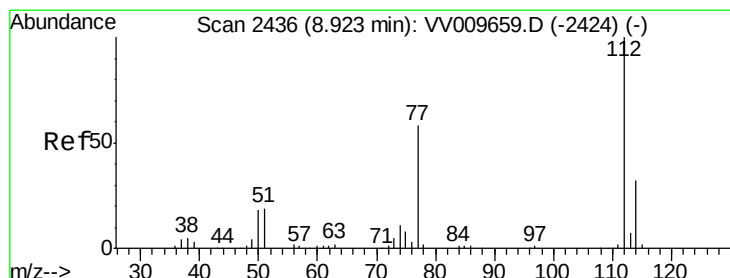
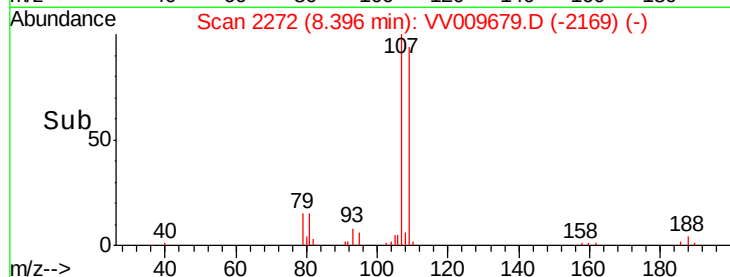
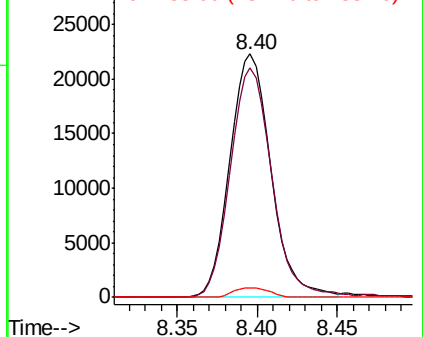
107 100

109 94.4 68.4 127.0

188 3.9 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: 23.985 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

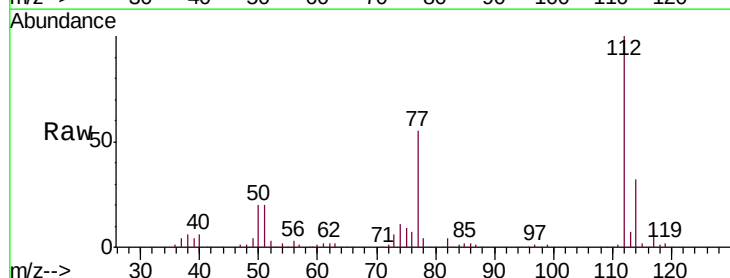
Tgt Ion:112 Resp: 136433

Ion Ratio Lower Upper

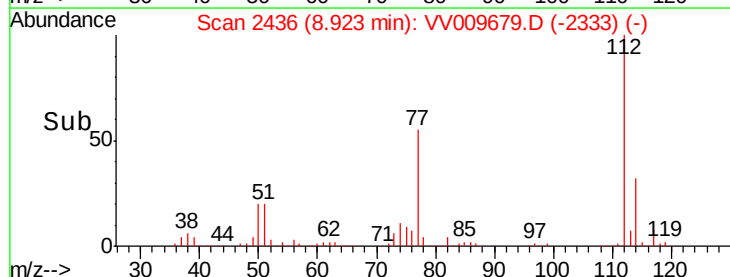
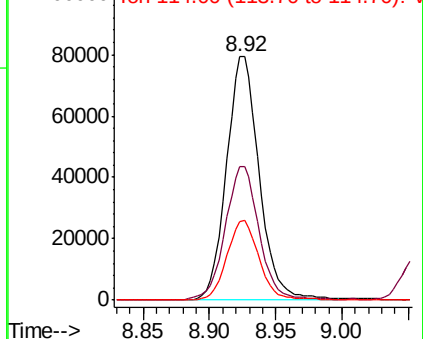
112 100

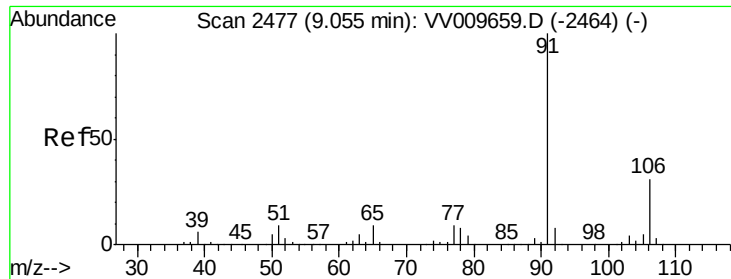
77 54.8 45.6 68.4

114 32.4 22.3 41.5



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 77.00 (76.70 to 77.70): V
Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 24.618 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

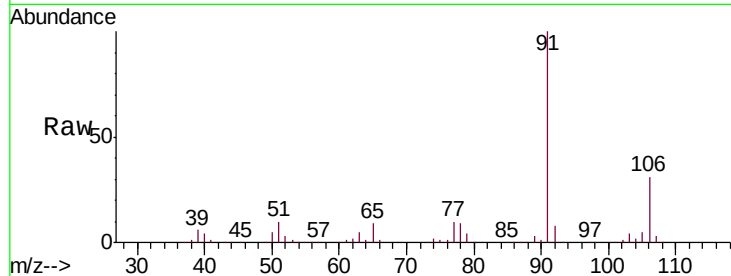
VSTD02562

Tgt Ion: 91 Resp: 238035

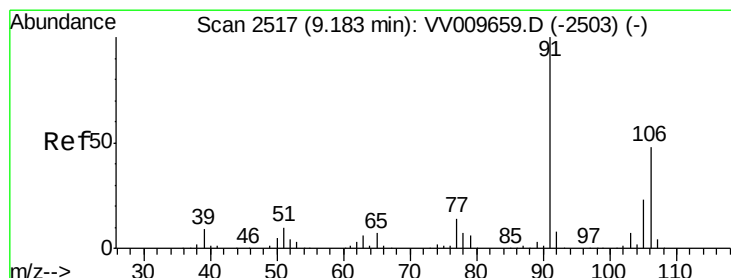
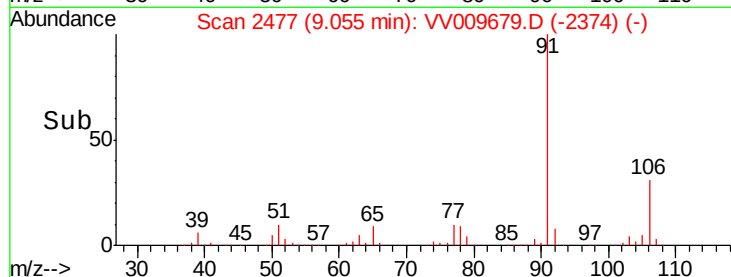
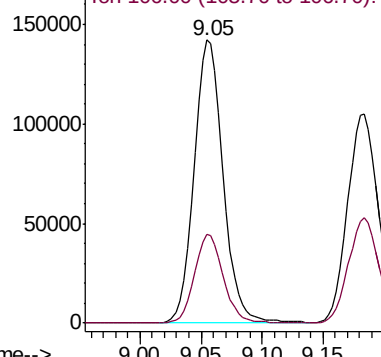
Ion Ratio Lower Upper

91 100

106 31.3 21.1 39.1



Abundance Ion 91.00 (90.70 to 91.70): VV009679.D (-2374) (-)



#54

m,p-Xylene

Concen: 25.557 ug/L

RT: 9.18 min Scan# 2517

Delta R.T. 0.00 min

Lab File: VV009679.D

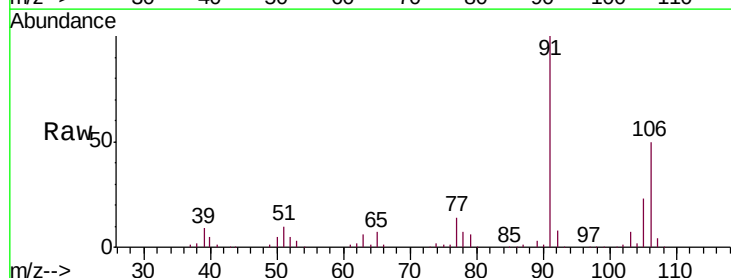
Acq: 15 Mar 2019 10:16

Tgt Ion: 106 Resp: 93281

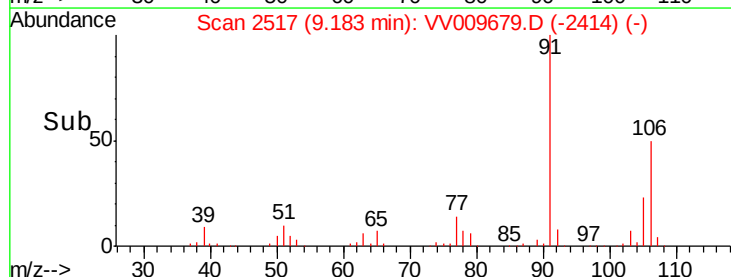
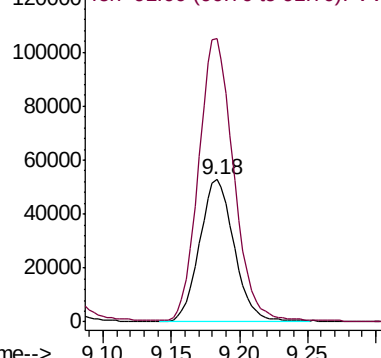
Ion Ratio Lower Upper

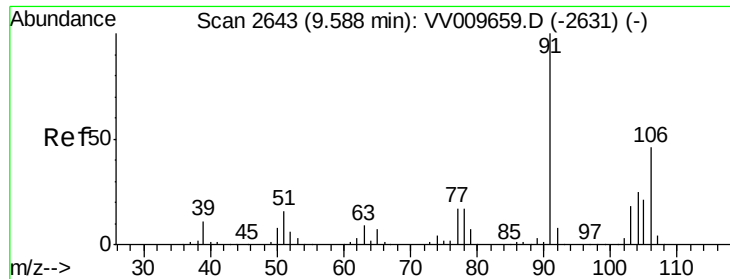
106 100

91 198.8 141.4 262.6



Abundance Ion 106.00 (105.70 to 106.70): VV009679.D (-2414) (-)





#55

o-xylene

Concen: 24.300 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

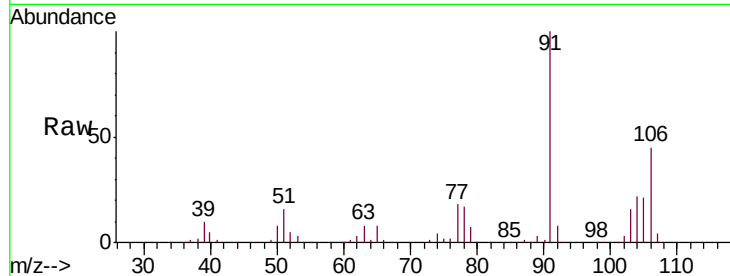
VSTD02562

Tgt Ion:106 Resp: 87044

Ion Ratio Lower Upper

106 100

91 219.8 149.7 278.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0

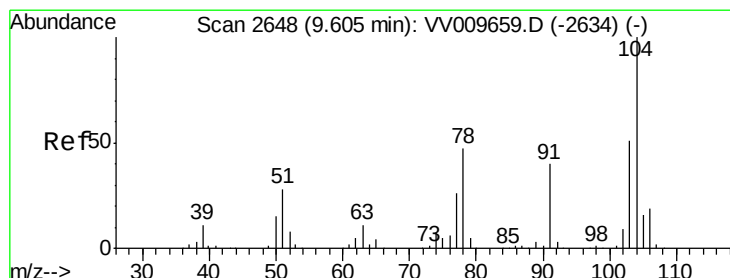
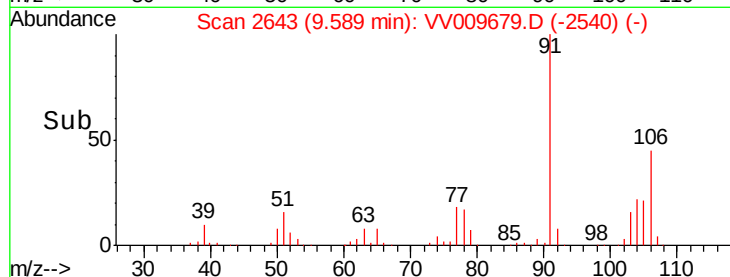
100000

50000

0

9.59

Time-->



#56

Styrene

Concen: 24.907 ug/L

RT: 9.60 min Scan# 2648

Delta R.T. 0.00 min

Lab File: VV009679.D

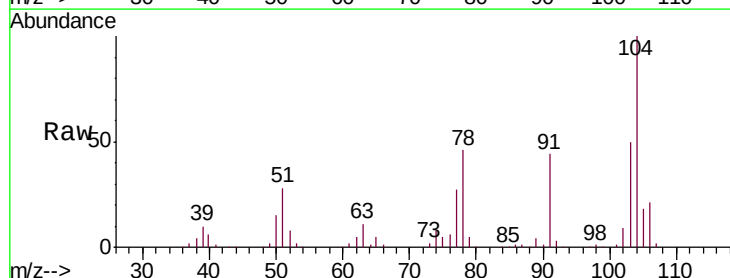
Acq: 15 Mar 2019 10:16

Tgt Ion:104 Resp: 145518

Ion Ratio Lower Upper

104 100

78 45.9 32.3 59.9



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0

100000

80000

60000

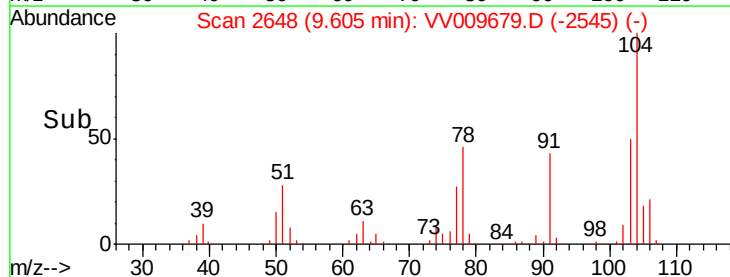
40000

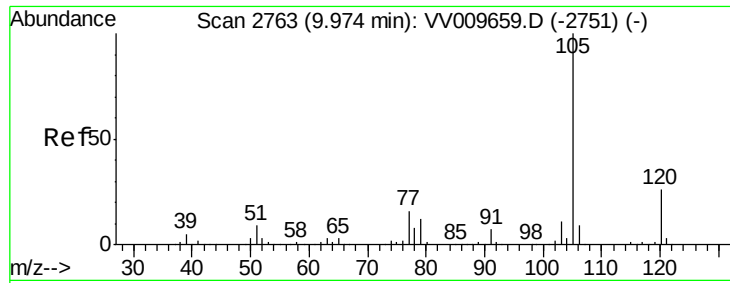
20000

0

9.60

Time-->





#57

Isopropylbenzene

Concen: 24.868 ug/L

RT: 9.97 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

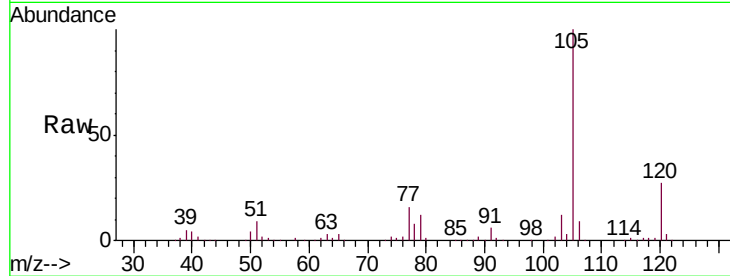
Tgt Ion: 105 Resp: 236249

Ion Ratio Lower Upper

105 100

120 26.6 21.5 32.3

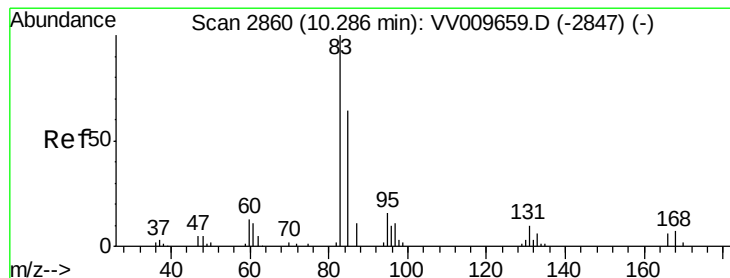
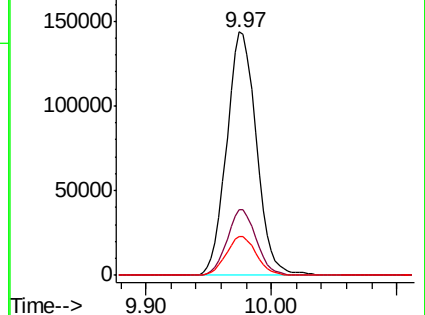
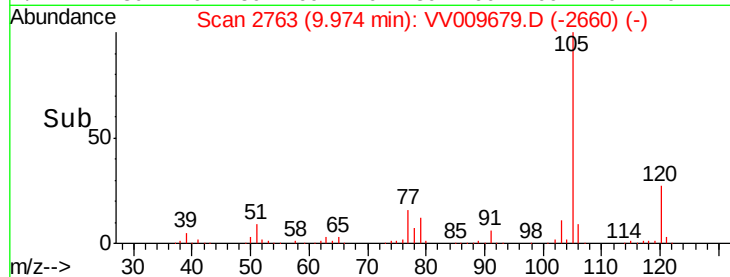
77 16.3 12.9 19.3



Abundance Ion 105.00 (104.70 to 105.70): VV009679.D (-2660) (-)

Ion 120.00 (119.70 to 120.70): VV009679.D (-2660) (-)

Ion 77.00 (76.70 to 77.70): VV009679.D (-2660) (-)



#58

1,1,2,2-Tetrachloroethane

Concen: 25.835 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

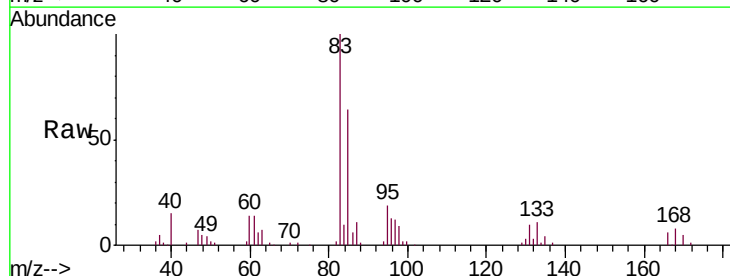
Tgt Ion: 83 Resp: 53372

Ion Ratio Lower Upper

83 100

85 64.0 46.1 85.7

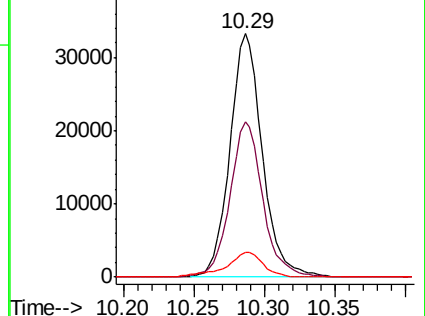
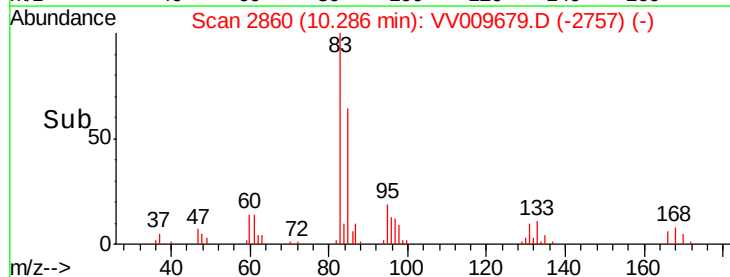
131 10.1 8.0 12.0

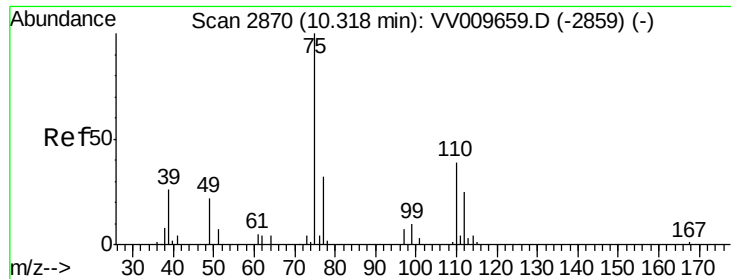


Abundance Ion 83.00 (82.70 to 83.70): VV009679.D (-2757) (-)

Ion 85.00 (84.70 to 85.70): VV009679.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV009679.D (-2757) (-)





#59

1,2,3-Trichloropropane

Concen: 25.326 ug/L

RT: 10.32 min Scan# 2870

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

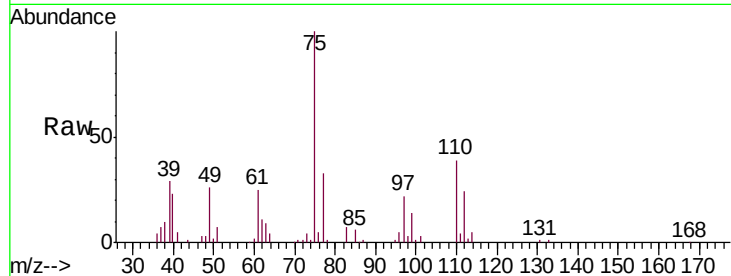
VSTD02562

Tgt Ion: 75 Resp: 37560

Ion Ratio Lower Upper

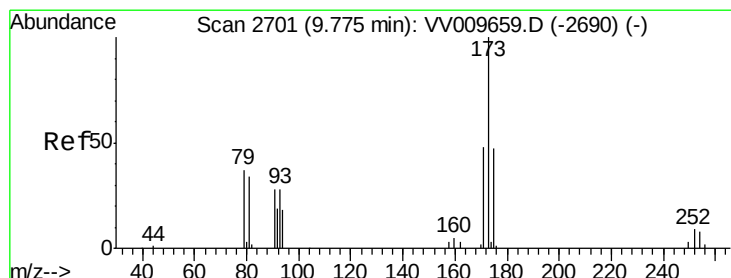
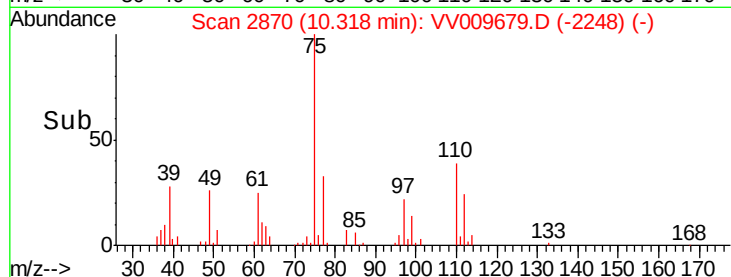
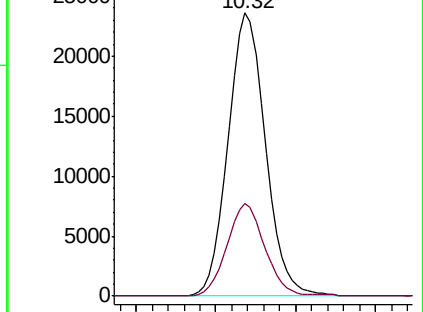
75 100

77 32.9 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VV009659.D (-2859) (-)

Ion 77.00 (76.70 to 77.70): VV009659.D (-2859) (-)



#62

Bromoform

Concen: 25.677 ug/L

RT: 9.78 min Scan# 2702

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

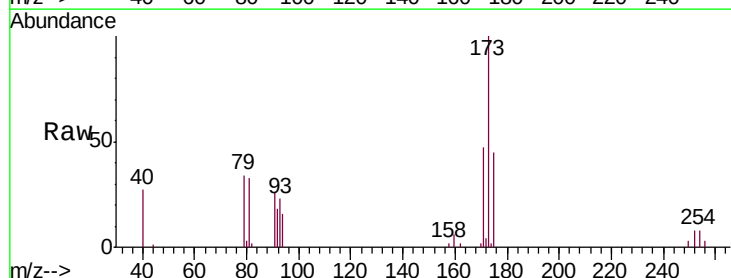
Tgt Ion: 173 Resp: 25850

Ion Ratio Lower Upper

173 100

175 45.8 37.8 56.6

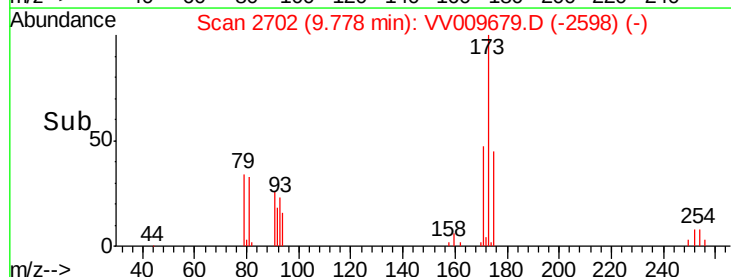
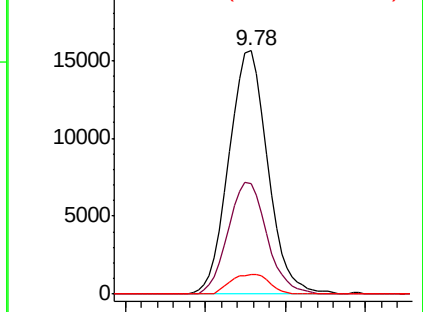
254 8.1 6.1 9.1

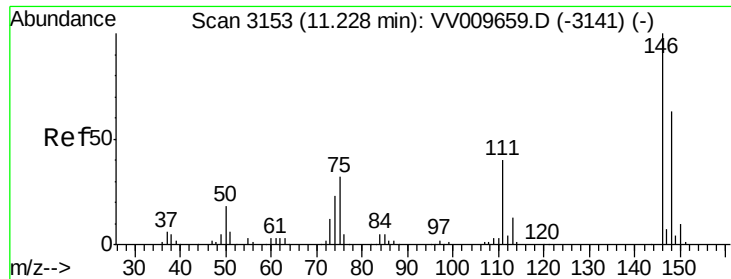


Abundance Ion 173.00 (172.70 to 173.70): VV009659.D (-2690) (-)

Ion 175.00 (174.70 to 175.70): VV009659.D (-2690) (-)

Ion 254.00 (253.70 to 254.70): VV009659.D (-2690) (-)

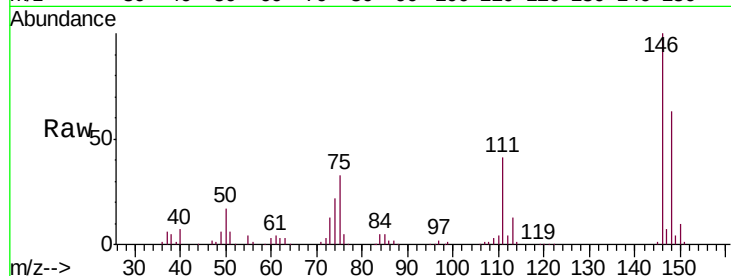




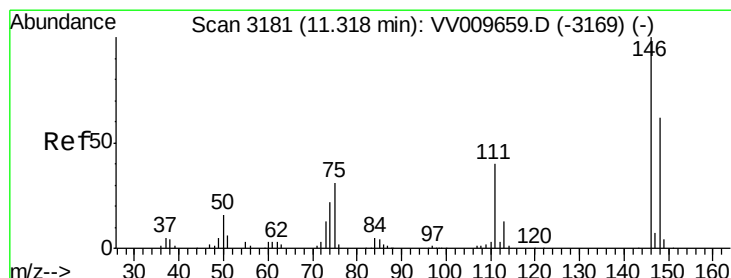
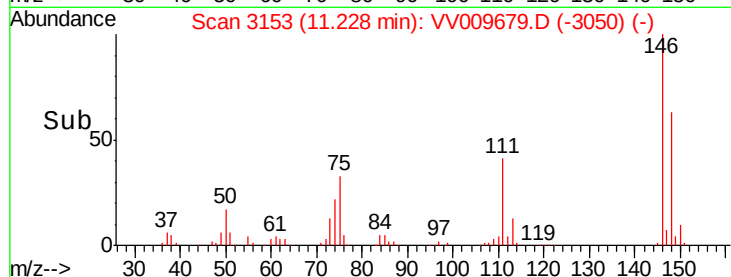
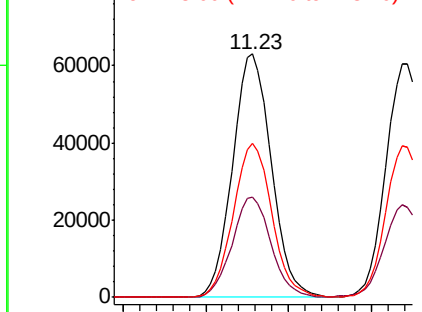
#63
 1,3-Dichlorobenzene
 Concen: 23.884 ug/L
 RT: 11.23 min Scan# 3153
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:146 Resp: 102679
 Ion Ratio Lower Upper
 146 100
 111 41.0 28.8 53.6
 148 63.3 45.1 83.7

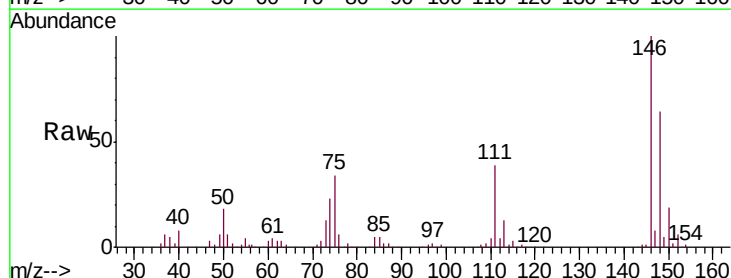


Abundance Ion 146.00 (145.70 to 146.70): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

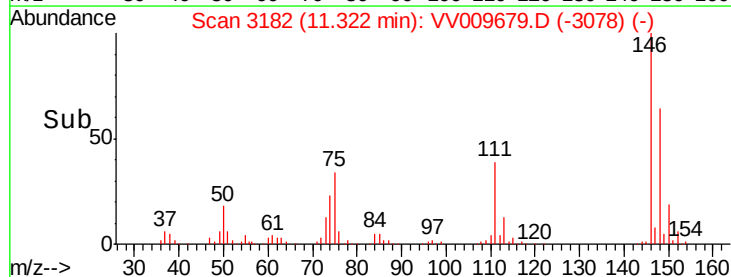
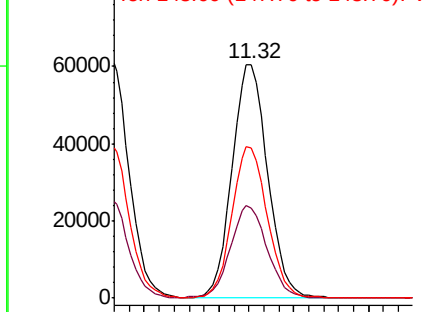


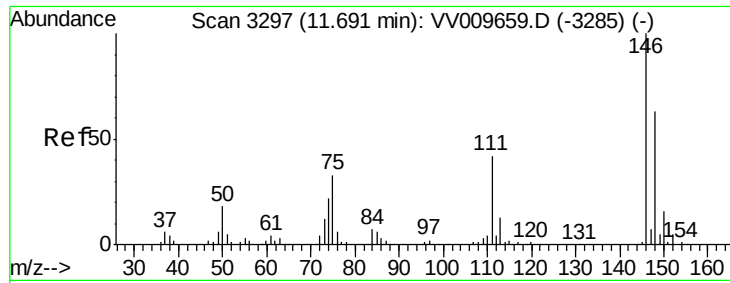
#64
 1,4-Dichlorobenzene
 Concen: 22.943 ug/L
 RT: 11.32 min Scan# 3182
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion:146 Resp: 100395
 Ion Ratio Lower Upper
 146 100
 111 38.7 28.2 52.4
 148 64.3 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

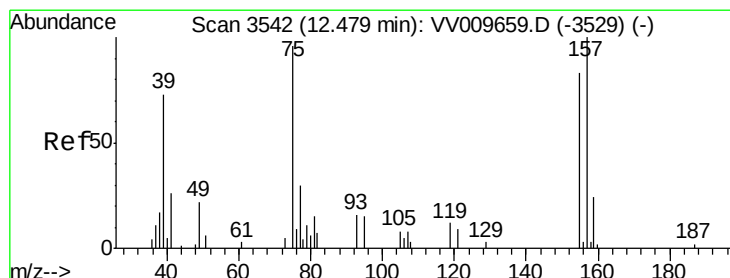
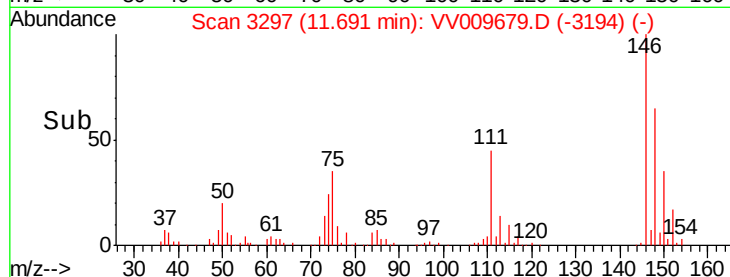
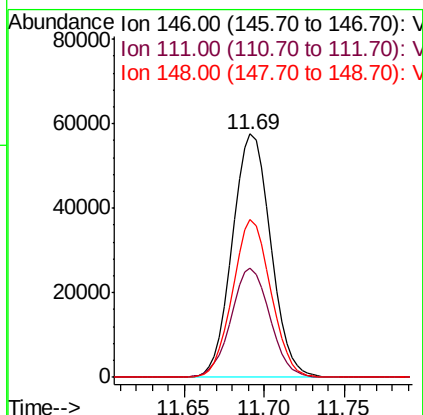
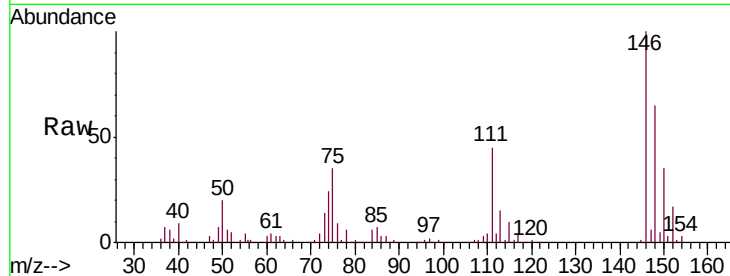




#65
 1,2-Dichlorobenzene
 Concen: 23.523 ug/L
 RT: 11.69 min Scan# 3297
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

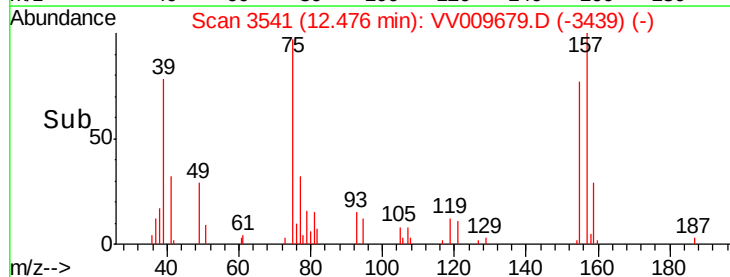
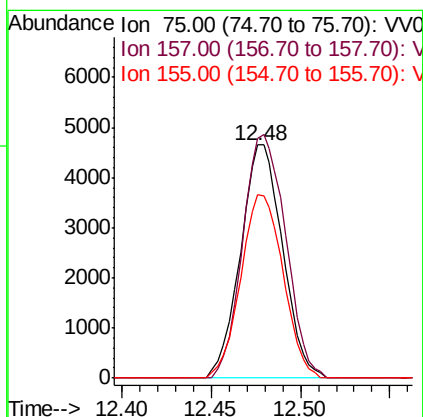
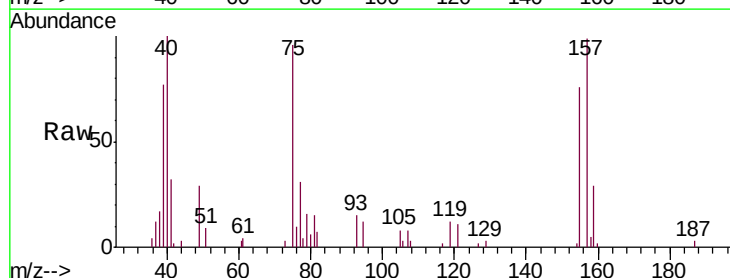
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

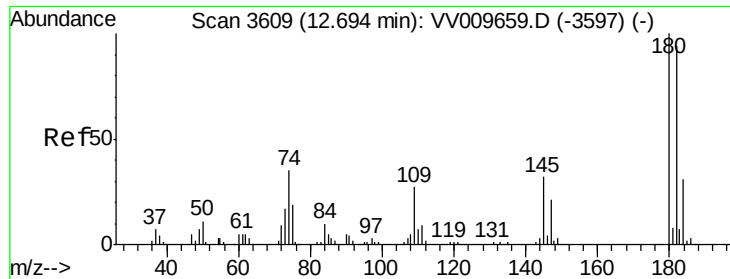
Tgt Ion: 146 Resp: 94092
 Ion Ratio Lower Upper
 146 100
 111 44.8 33.8 50.6
 148 64.7 49.1 73.7



#66
 1,2-Dibromo-3-chloropropane
 Concen: 25.867 ug/L
 RT: 12.48 min Scan# 3541
 Delta R.T. -0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion: 75 Resp: 7660
 Ion Ratio Lower Upper
 75 100
 157 103.0 78.6 118.0
 155 78.8 60.0 90.0

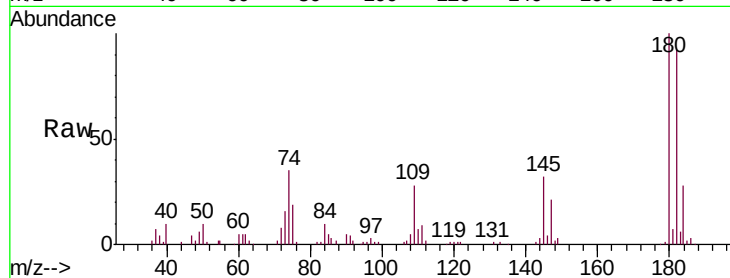




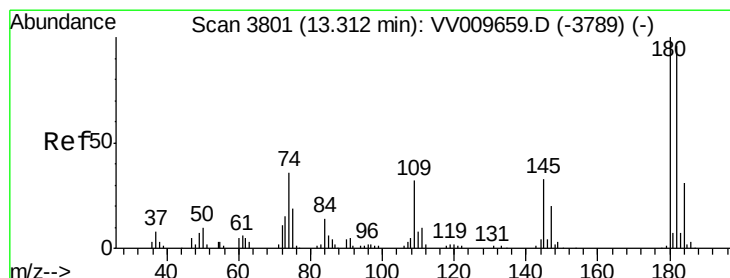
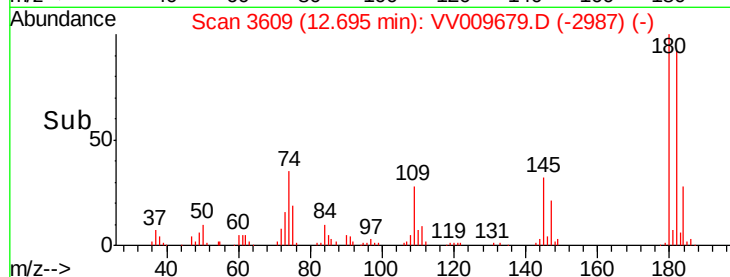
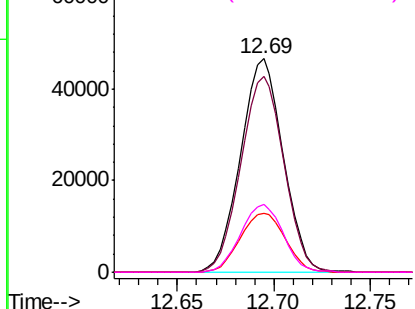
#67
 1,3,5-Trichlorobenzene
 Concen: 23.922 ug/L
 RT: 12.69 min Scan# 3609
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD02562

Tgt Ion:180 Resp: 71620
 Ion Ratio Lower Upper
 180 100
 182 92.5 76.3 114.5
 184 29.3 23.8 35.8
 145 31.8 25.8 38.8

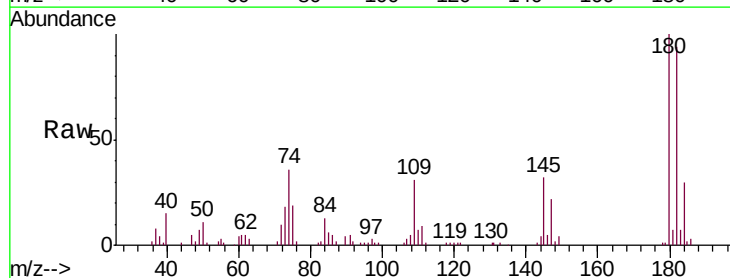


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

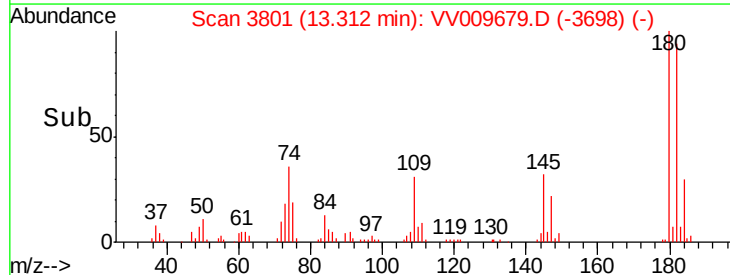
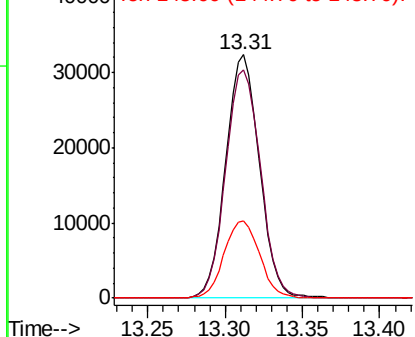


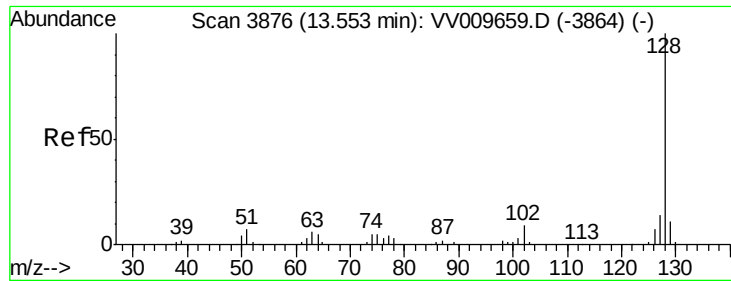
#68
 1,2,4-trichlorobenzene
 Concen: 22.989 ug/L
 RT: 13.31 min Scan# 3801
 Delta R.T. 0.00 min
 Lab File: VV009679.D
 Acq: 15 Mar 2019 10:16

Tgt Ion:180 Resp: 48788
 Ion Ratio Lower Upper
 180 100
 182 96.9 77.4 116.0
 145 33.4 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: 22.672 ug/L

RT: 13.55 min Scan# 3876

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

Instrument :

MSVOA_V

ClientSampleId :

VSTD02562

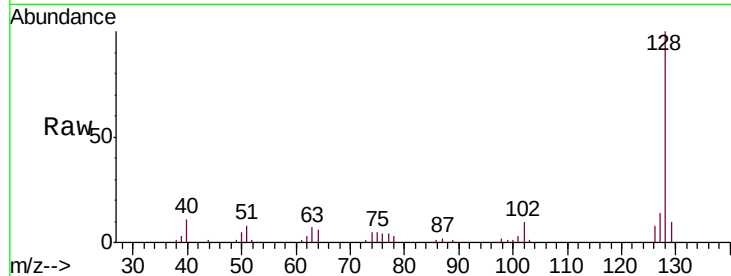
Tgt Ion:128 Resp: 79476

Ion Ratio Lower Upper

128 100

129 10.0 8.3 12.5

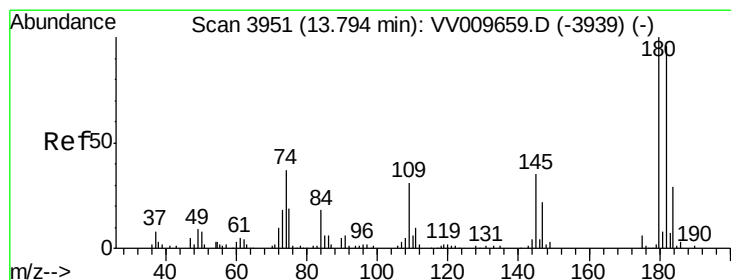
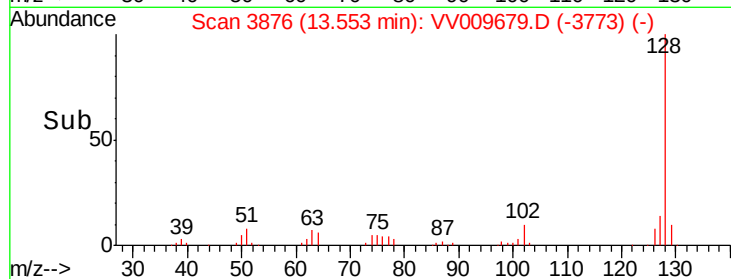
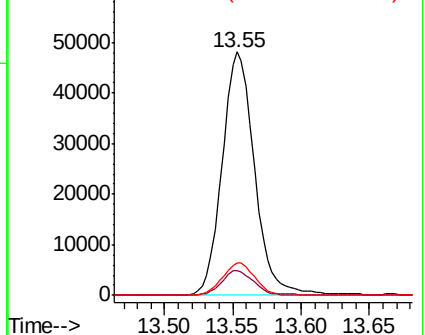
127 13.6 11.0 16.6



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: 23.571 ug/L

RT: 13.79 min Scan# 3951

Delta R.T. 0.00 min

Lab File: VV009679.D

Acq: 15 Mar 2019 10:16

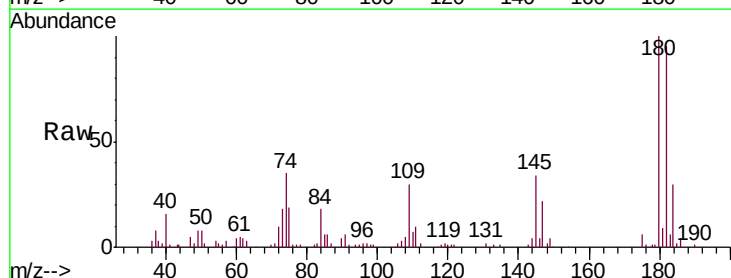
Tgt Ion:180 Resp: 46001

Ion Ratio Lower Upper

180 100

182 94.6 76.9 115.3

145 34.0 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

