

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV080919\
 Data File : VV012147.D
 Acq On : 09 Aug 2019 10:57
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA_V/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Quant Time: Aug 10 02:28:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080819WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 09 17:51:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	137398	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	127191	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	72283	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	25358	4.34	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.80%
7) Chloroethane-d5	1.58	69	18725	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.13	63	51362	4.34	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.80%
20) 2-Butanone-d5	3.95	46	64303	42.61	ug/L	0.01
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.22%
24) Chloroform-d	4.40	84	74827	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.08	65	38941	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.20%
32) Benzene-d6	5.09	84	140146	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.60%
36) 1,2-Dichloropropane-d6	6.11	67	35794	4.33	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.60%
41) Toluene-d8	7.36	98	139291	4.40	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.00%
43) trans-1,3-Dichloropropene-	7.66	79	18660	4.33	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.60%
46) 2-Hexanone-d5	8.13	63	55822	40.69	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	81.38%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	28591	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	59249	4.41	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.20%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.14	85	60235	4.641 ug/L	99
3) Chloromethane	1.25	50	26961	4.678 ug/L	94
5) Vinyl chloride	1.32	62	30175	4.520 ug/L	99
6) Bromomethane	1.54	94	18391	4.709 ug/L	100
8) Chloroethane	1.60	64	15934	4.416 ug/L	95
9) Trichlorofluoromethane	1.77	101	60915	4.652 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	28172	4.746 ug/L	99
12) 1,1-Dichloroethene	2.14	96	25387	4.633 ug/L	98
13) Acetone	2.21	43	33010	37.175 ug/L	97
14) Carbon disulfide	2.32	76	69993	4.582 ug/L	98
15) Methyl Acetate	2.47	43	6926	3.630 ug/L	96
16) Methylene chloride	2.53	84	24088	4.146 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	82759	4.316 ug/L	99
18) trans-1,2-Dichloroethene	2.78	96	37638	4.625 ug/L	96
19) 1,1-Dichloroethane	3.23	63	60532	4.545 ug/L	98
21) 2-Butanone	4.03	43	64289	41.894 ug/L	95
22) cis-1,2-Dichloroethene	3.96	96	40961	4.556 ug/L	97

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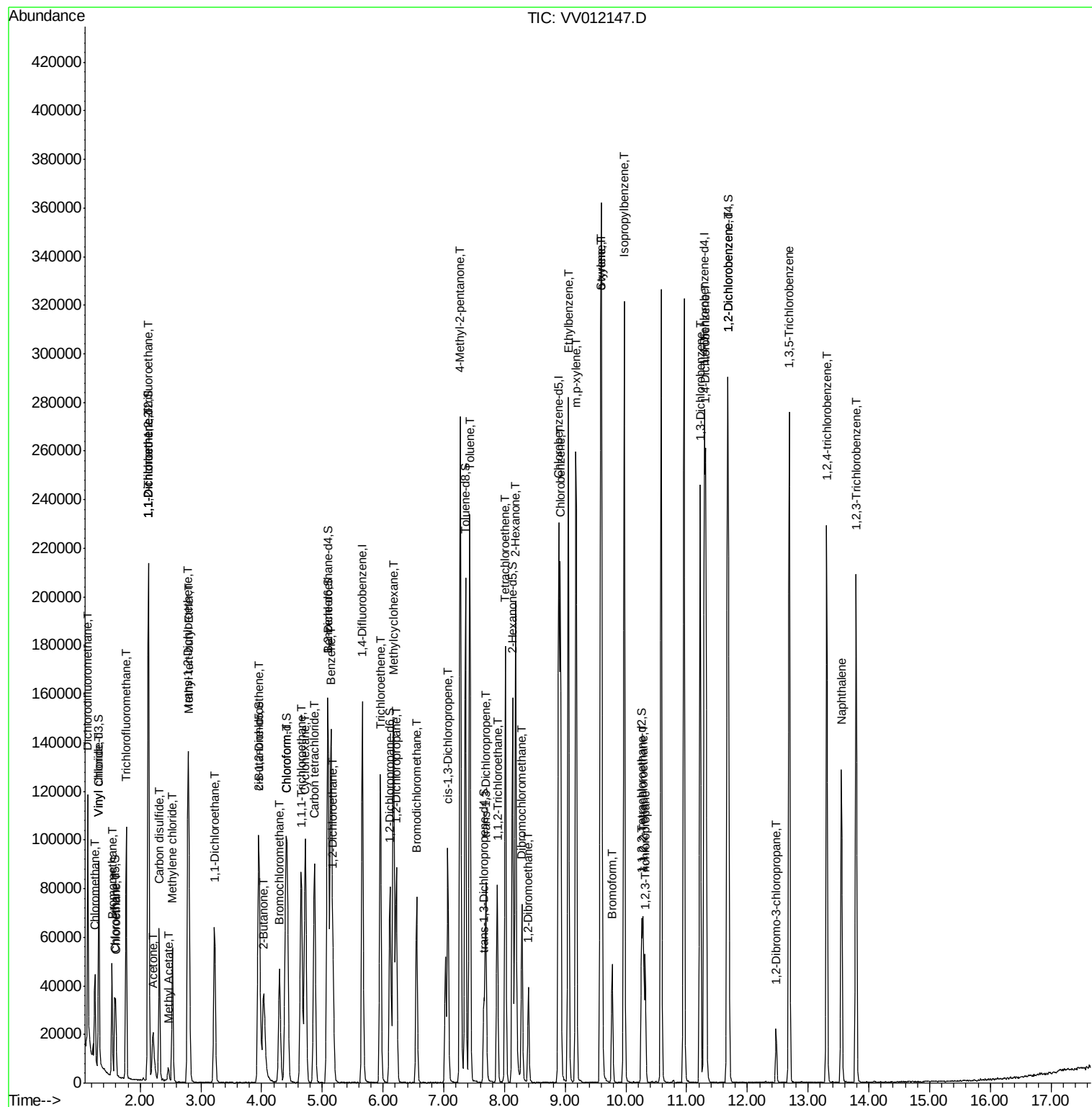
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	18555	4.333	ug/L	99
25) Chloroform	4.42	83	73585	4.331	ug/L	96
27) 1,2-Dichloroethane	5.18	62	44985	4.395	ug/L	99
29) 1,1,1-Trichloroethane	4.65	97	73392	4.647	ug/L	98
30) Cyclohexane	4.72	56	53765	4.796	ug/L	94
31) Carbon tetrachloride	4.87	117	70642	4.624	ug/L	100
33) Benzene	5.14	78	143863	4.644	ug/L	100
34) Trichloroethene	5.96	95	42346	4.584	ug/L	100
35) Methylcyclohexane	6.17	83	68343	4.771	ug/L	97
37) 1,2-Dichloropropane	6.22	63	31446	4.670	ug/L	99
38) Bromodichloromethane	6.55	83	51430	4.450	ug/L	99
39) cis-1,3-Dichloropropene	7.07	75	55918	4.580	ug/L	98
40) 4-Methyl-2-pentanone	7.27	43	162527	42.367	ug/L	100
42) Toluene	7.43	91	166353	4.602	ug/L	99
44) trans-1,3-Dichloropropene	7.69	75	45245	4.592	ug/L	100
45) 1,1,2-Trichloroethane	7.88	97	25272	4.374	ug/L	98
47) Tetrachloroethene	8.02	164	43198	4.834	ug/L	98
48) 2-Hexanone	8.18	43	117497	43.715	ug/L	98
49) Dibromochloromethane	8.29	129	38128	4.389	ug/L	98
50) 1,2-Dibromoethane	8.40	107	25658	4.424	ug/L	94
51) Chlorobenzene	8.92	112	115065	4.672	ug/L	99
52) Ethylbenzene	9.05	91	192369	4.692	ug/L	98
53) m,p-xylene	9.18	106	75537	4.712	ug/L	95
54) o-xylene	9.59	106	71179	4.584	ug/L	99
55) Styrene	9.60	104	119999	4.645	ug/L	99
56) Isopropylbenzene	9.97	105	205450	4.772	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.28	83	27725	4.340	ug/L	98
59) 1,2,3-Trichloropropane	10.32	75	20564	4.207	ug/L	99
61) Bromoform	9.77	173	23650	4.218	ug/L	99
62) 1,3-Dichlorobenzene	11.22	146	105052	4.726	ug/L	98
63) 1,4-Dichlorobenzene	11.32	146	102203	4.587	ug/L	98
65) 1,2-Dichlorobenzene	11.69	146	94228	4.567	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.47	75	5725	4.279	ug/L	93
67) 1,3,5-Trichlorobenzene	12.69	180	90050	4.718	ug/L	99
68) 1,2,4-trichlorobenzene	13.31	180	74607	4.698	ug/L	100
69) Naphthalene	13.55	128	107579	4.189	ug/L	99
70) 1,2,3-Trichlorobenzene	13.79	180	67807	4.504	ug/L	100

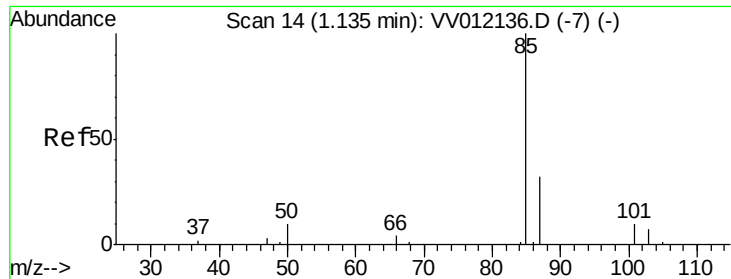
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.641 ug/L

RT: 1.14 min Scan# 15

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

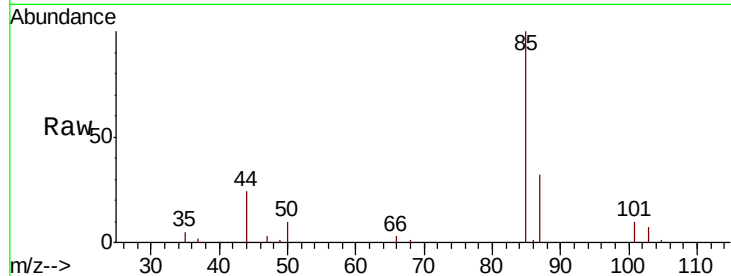
VSTD00560

Tgt Ion: 85 Resp: 60235

Ion Ratio Lower Upper

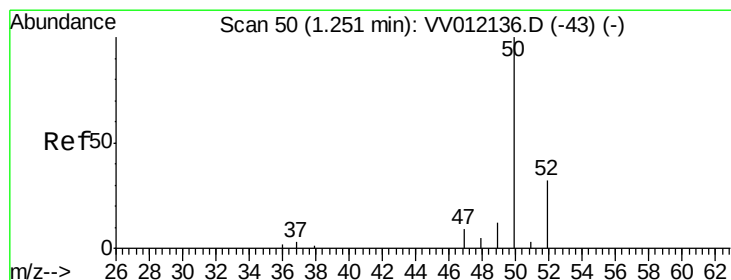
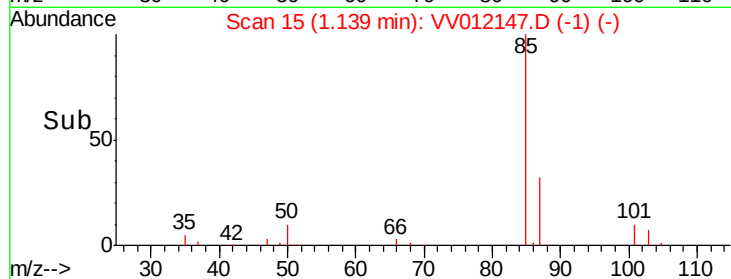
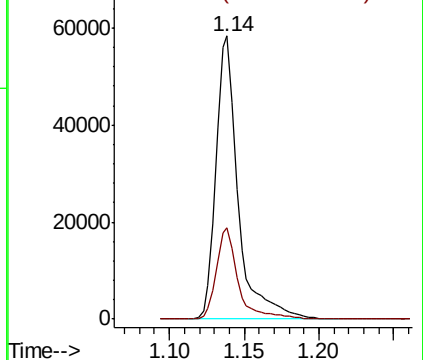
85 100

87 32.0 26.2 39.2



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0



#3

Chloromethane

Concen: 4.678 ug/L

RT: 1.25 min Scan# 51

Delta R.T. 0.00 min

Lab File: VV012147.D

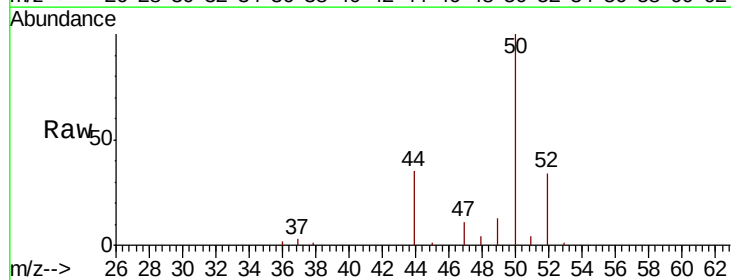
Acq: 09 Aug 2019 10:57

Tgt Ion: 50 Resp: 26961

Ion Ratio Lower Upper

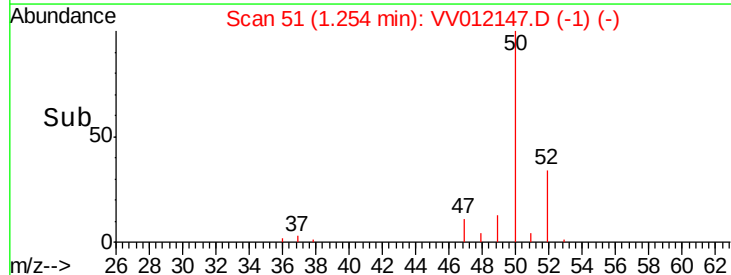
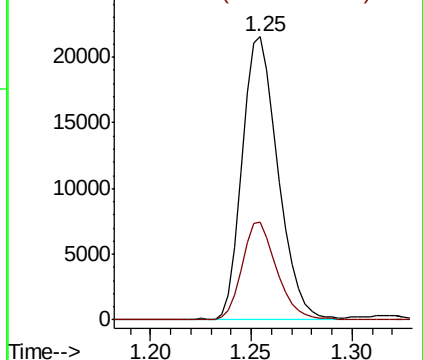
50 100

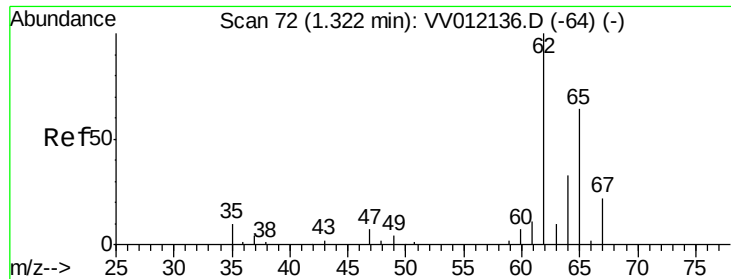
52 34.3 21.6 40.0



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0





#5

Vinyl chloride

Concen: 4.520 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

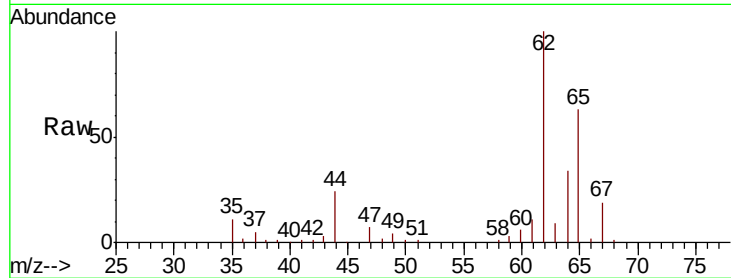
VSTD00560

Tgt Ion: 62 Resp: 30175

Ion Ratio Lower Upper

62 100

64 33.8 23.2 43.0



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

1.32

30000

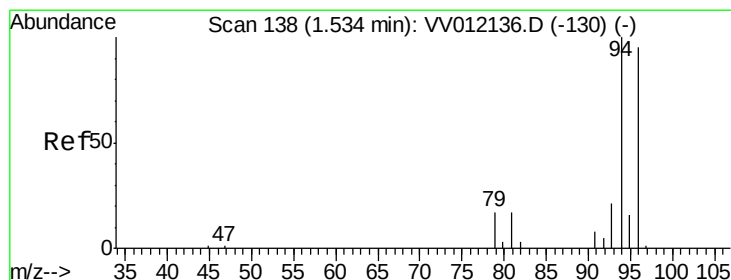
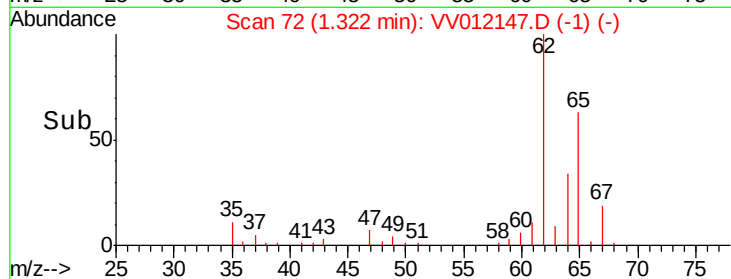
20000

10000

0

Time-->

1.30 1.35 1.40



#6

Bromomethane

Concen: 4.709 ug/L

RT: 1.54 min Scan# 139

Delta R.T. 0.00 min

Lab File: VV012147.D

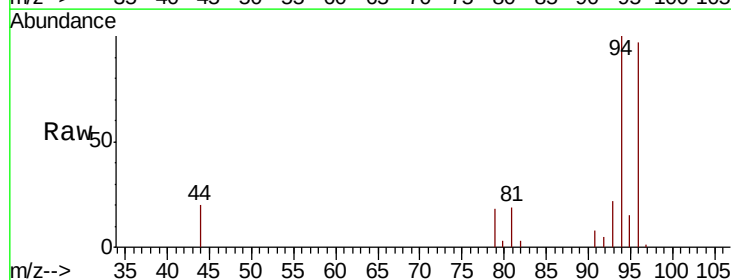
Acq: 09 Aug 2019 10:57

Tgt Ion: 94 Resp: 18391

Ion Ratio Lower Upper

94 100

96 96.5 67.4 125.2



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.54

15000

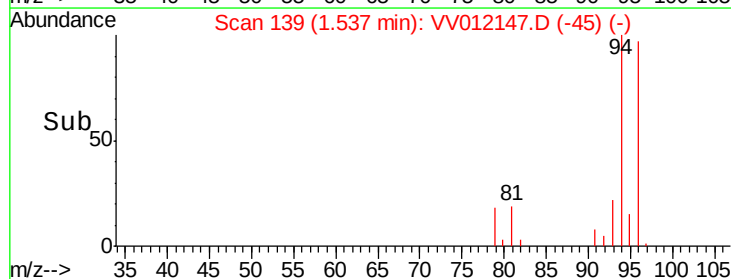
10000

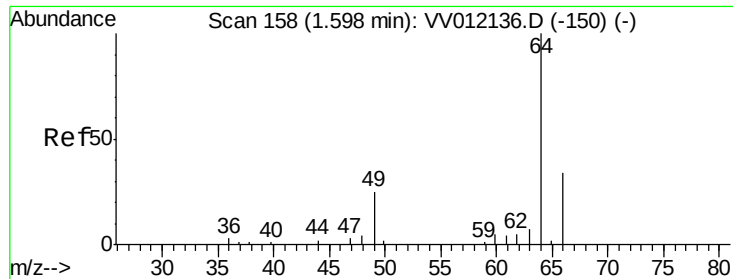
5000

0

Time-->

1.50 1.55 1.60





#8

Chloroethane

Concen: 4.416 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

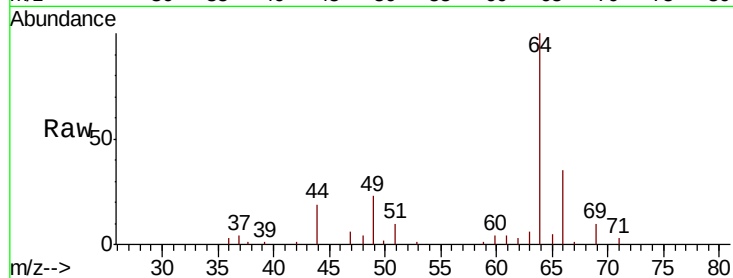
VSTD00560

Tgt Ion: 64 Resp: 15934

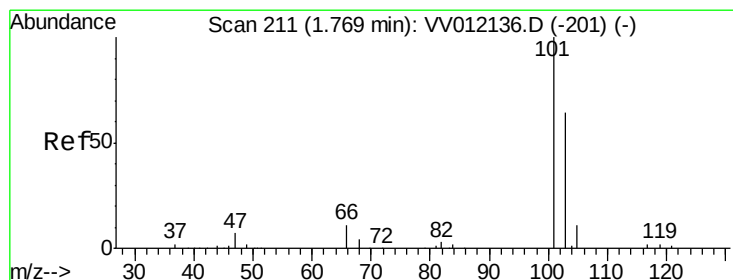
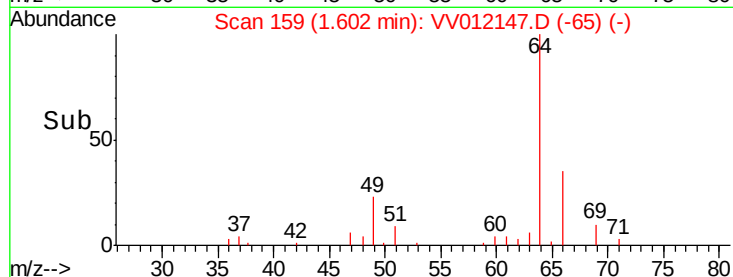
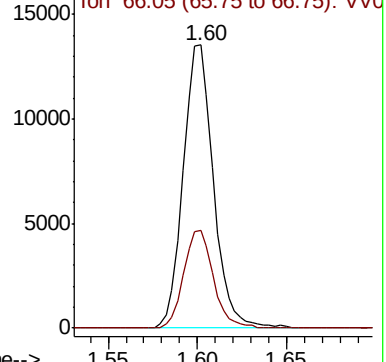
Ion Ratio Lower Upper

64 100

66 34.8 22.3 41.5



Abundance Ion 64.10 (63.80 to 64.80): VV012136.D (-150) (-)



#9

Trichlorofluoromethane

Concen: 4.652 ug/L

RT: 1.77 min Scan# 211

Delta R.T. 0.00 min

Lab File: VV012147.D

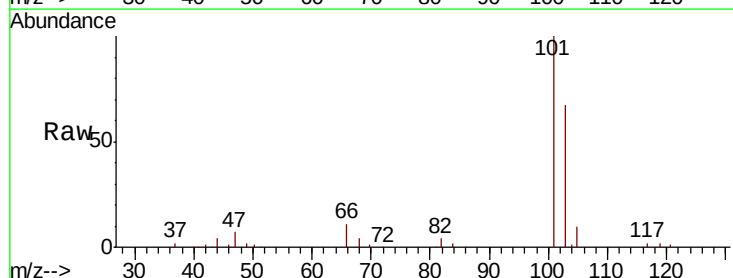
Acq: 09 Aug 2019 10:57

Tgt Ion: 101 Resp: 60915

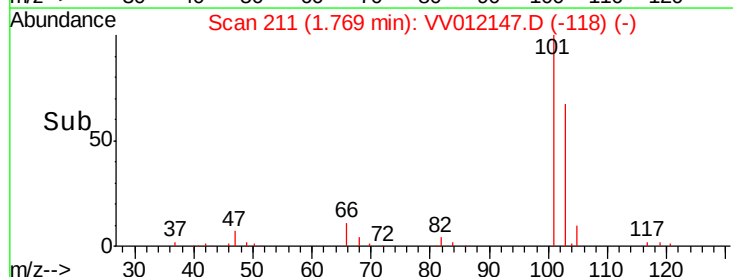
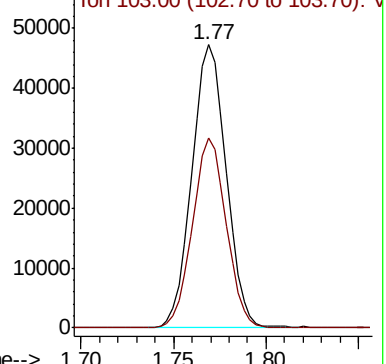
Ion Ratio Lower Upper

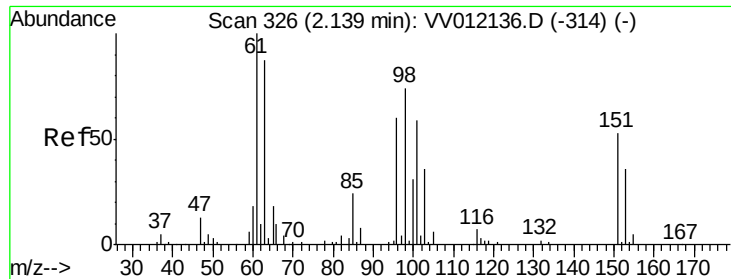
101 100

103 65.9 53.3 79.9



Abundance Ion 101.00 (100.70 to 101.70): VV012136.D (-201) (-)





#10

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

Concen: 4.746 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

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VSTD00560

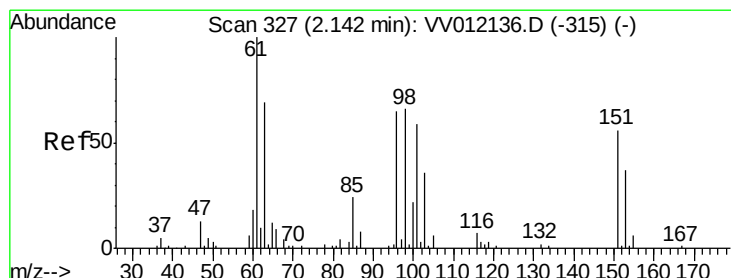
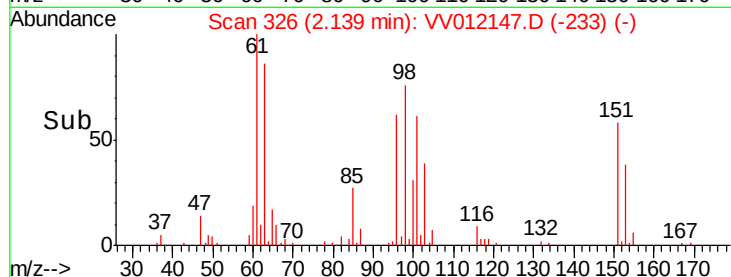
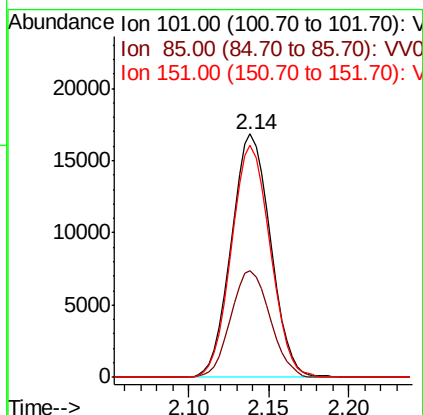
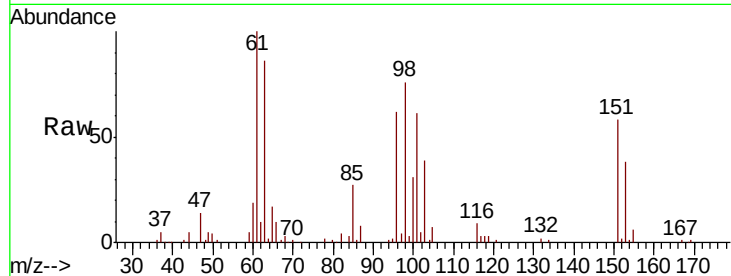
Tgt Ion:101 Resp: 28172

Ion Ratio Lower Upper

101 100

85 43.7 34.3 51.5

151 94.1 75.0 112.6



#12

1,1-Dichloroethene

Concen: 4.633 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

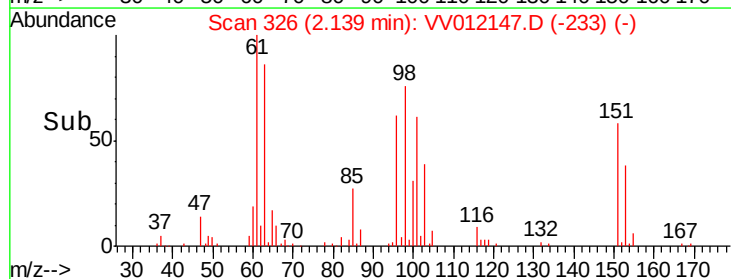
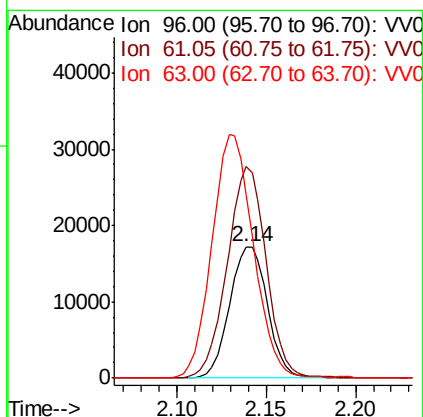
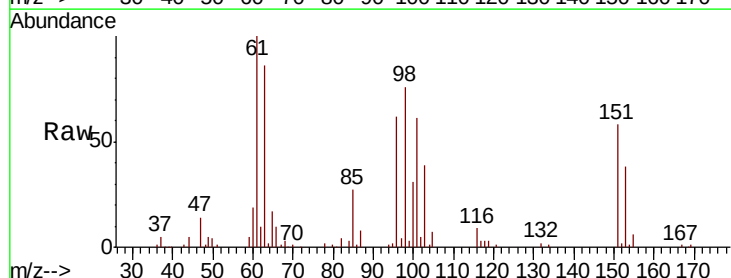
Tgt Ion: 96 Resp: 25387

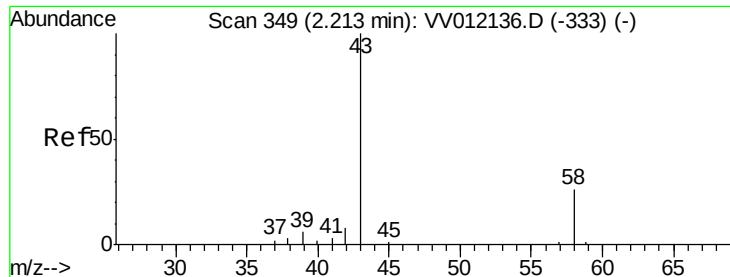
Ion Ratio Lower Upper

96 100

61 161.7 114.7 213.1

63 139.8 94.9 176.3





#13

Acetone

Concen: 37.175 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.01 min

Lab File: VV012147.D

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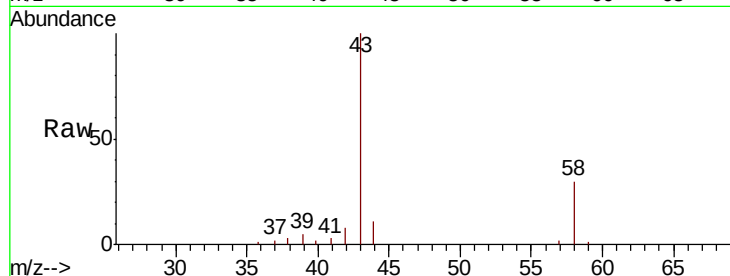
VSTD00560

Tgt Ion: 43 Resp: 33010

Ion Ratio Lower Upper

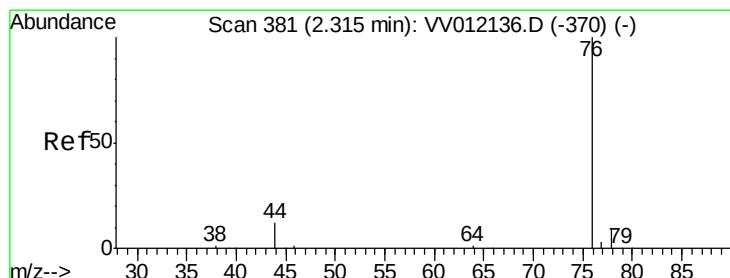
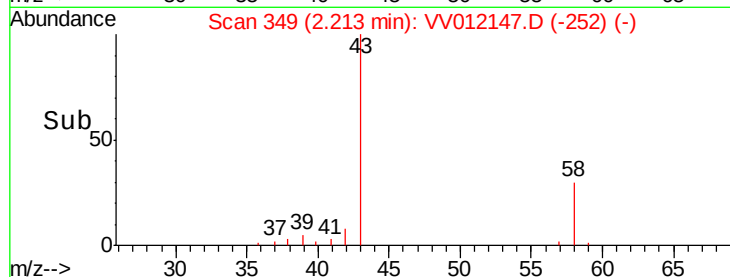
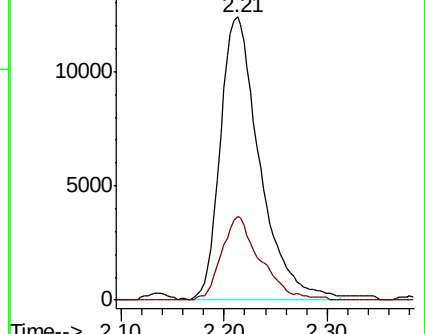
43 100

58 28.8 0.0 54.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 4.582 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV012147.D

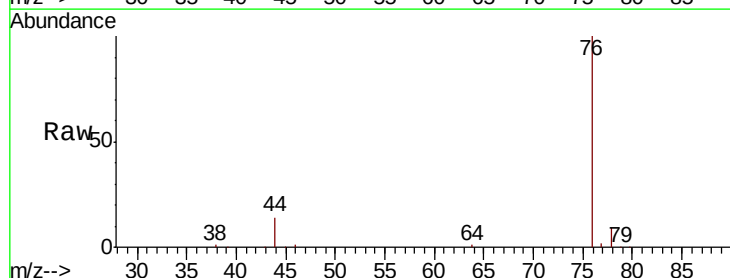
Acq: 09 Aug 2019 10:57

Tgt Ion: 76 Resp: 69993

Ion Ratio Lower Upper

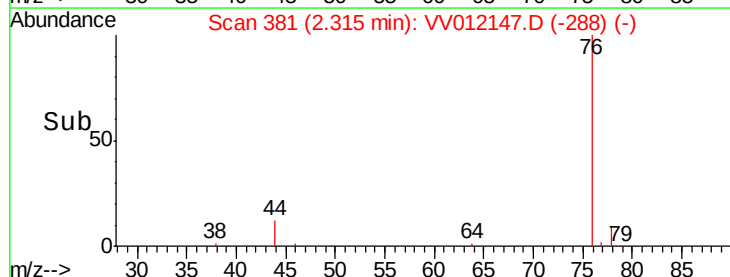
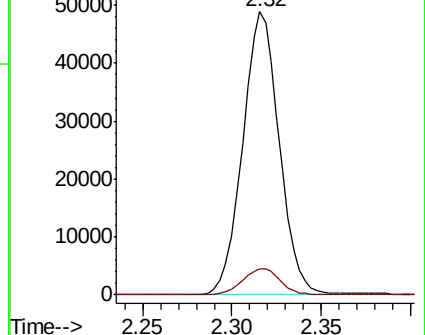
76 100

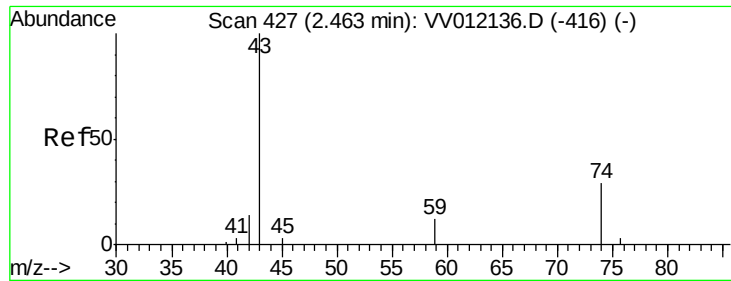
78 9.1 7.8 11.8



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

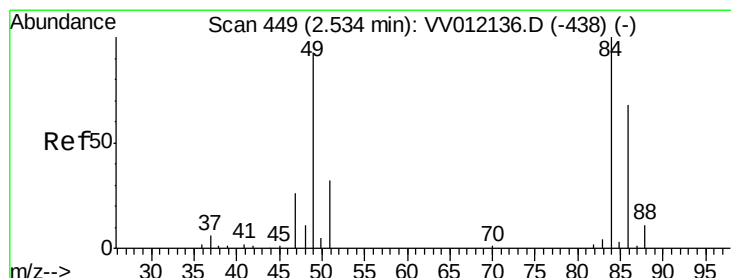
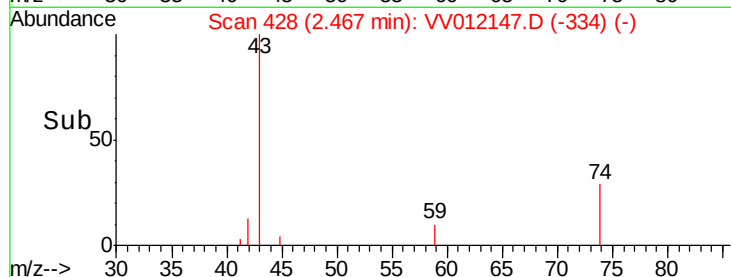
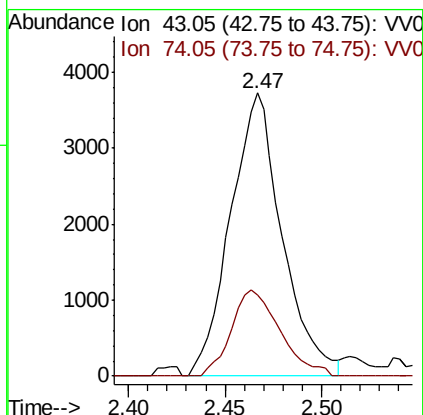
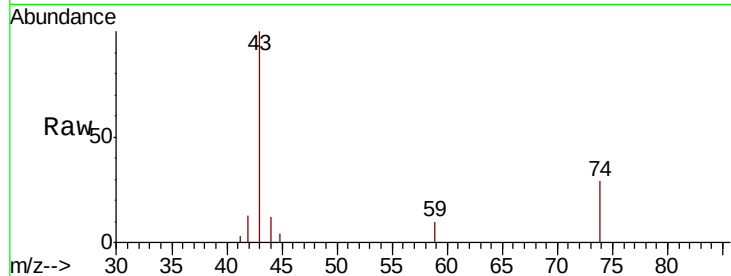




#15
Methyl Acetate
Concen: 3.630 ug/L
RT: 2.47 min Scan# 428
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

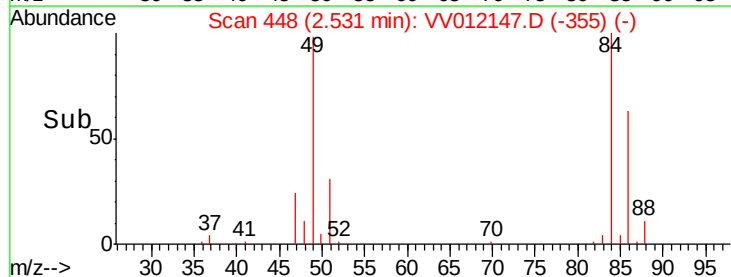
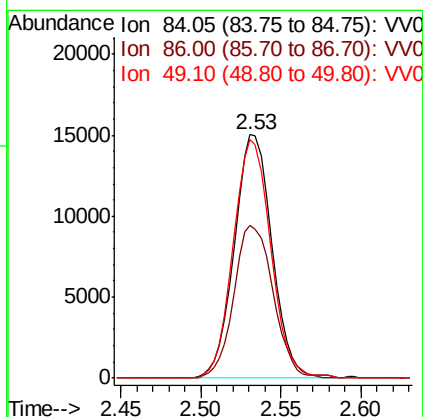
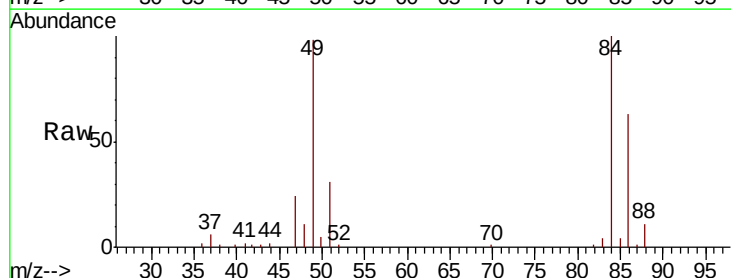
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

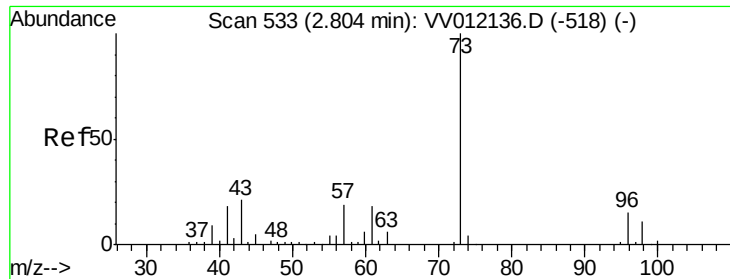
Tgt Ion: 43 Resp: 6926
Ion Ratio Lower Upper
43 100
74 28.5 24.6 36.8



#16
Methylene chloride
Concen: 4.146 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Tgt Ion: 84 Resp: 24088
Ion Ratio Lower Upper
84 100
86 62.6 45.4 84.2
49 98.0 69.2 128.4

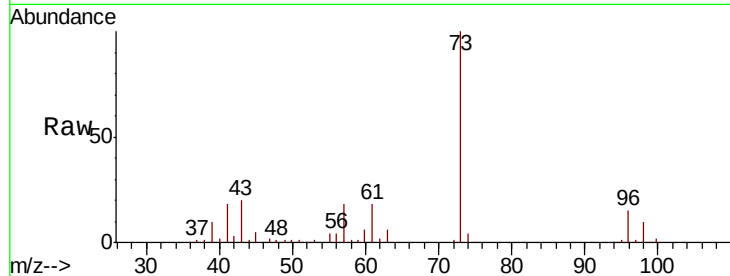




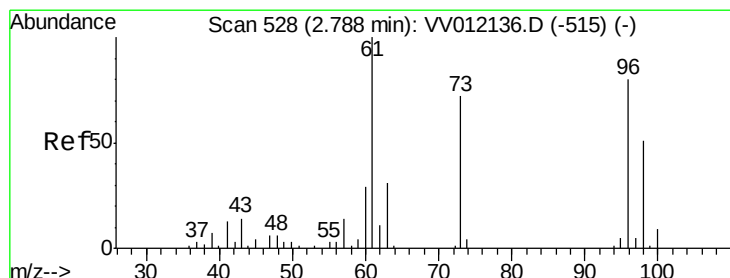
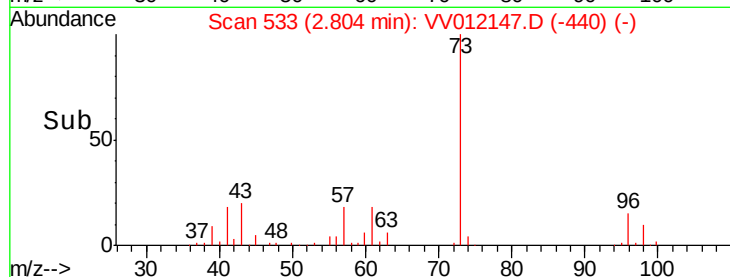
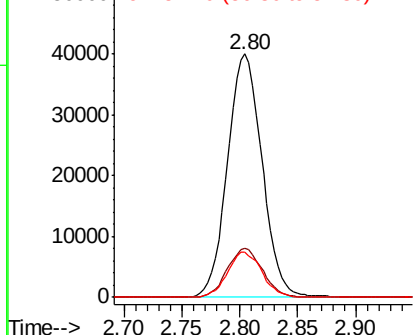
#17
Methyl tert-butyl Ether
Concen: 4.316 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tgt Ion: 73 Resp: 82759
Ion Ratio Lower Upper
73 100
43 20.4 15.9 23.9
57 18.5 15.0 22.4

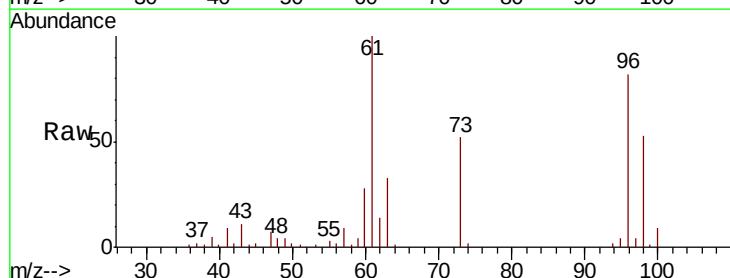


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

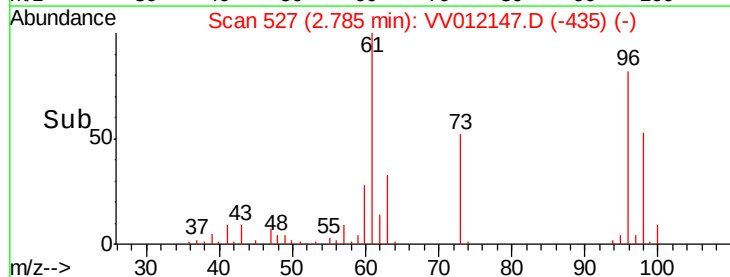
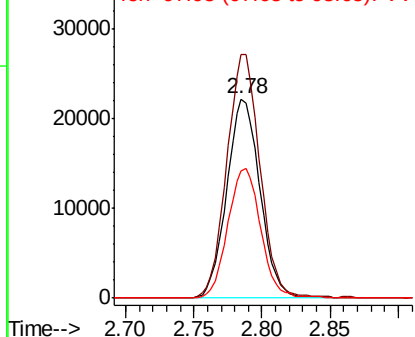


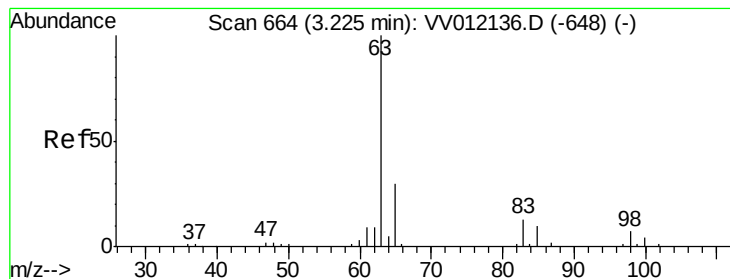
#18
trans-1,2-Dichloroethene
Concen: 4.625 ug/L
RT: 2.78 min Scan# 527
Delta R.T. -0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Tgt Ion: 96 Resp: 37638
Ion Ratio Lower Upper
96 100
61 122.1 89.9 167.0
98 64.2 45.6 84.6



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0





#19

1,1-Dichloroethane

Concen: 4.545 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

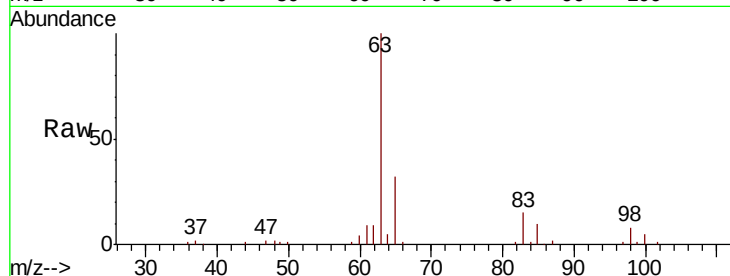
Tgt Ion: 63 Resp: 60532

Ion Ratio Lower Upper

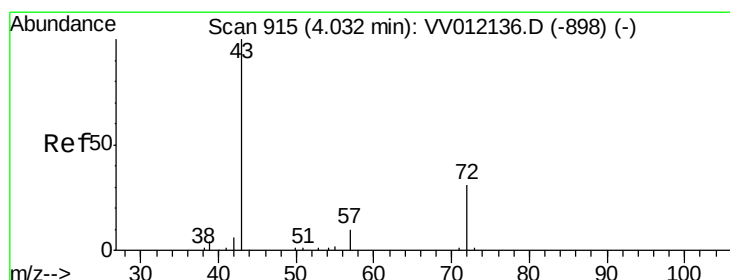
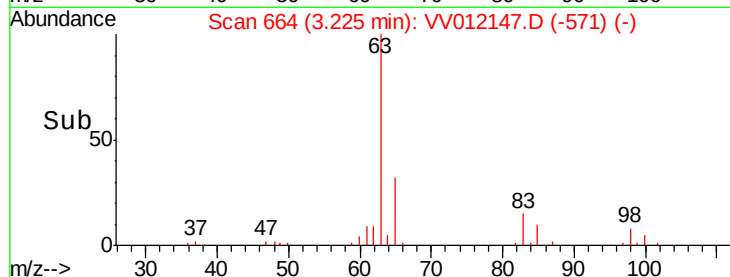
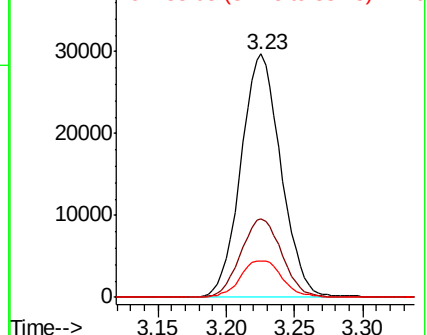
63 100

65 32.5 23.5 43.7

83 15.0 11.0 20.4



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#21

2-Butanone

Concen: 41.894 ug/L

RT: 4.03 min Scan# 915

Delta R.T. 0.01 min

Lab File: VV012147.D

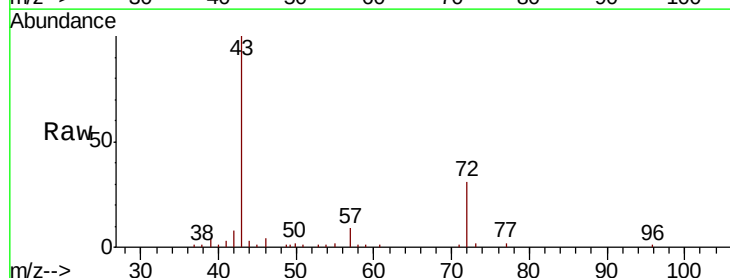
Acq: 09 Aug 2019 10:57

Tgt Ion: 43 Resp: 64289

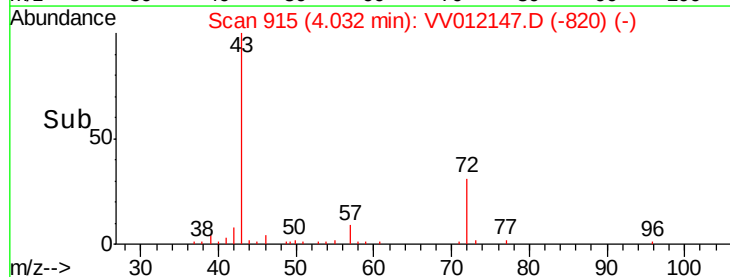
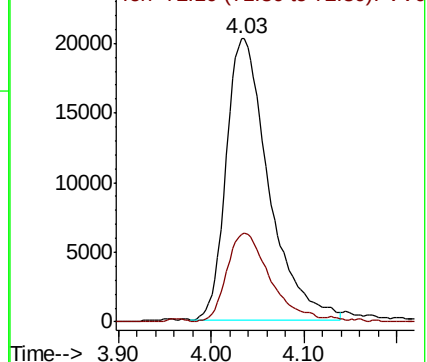
Ion Ratio Lower Upper

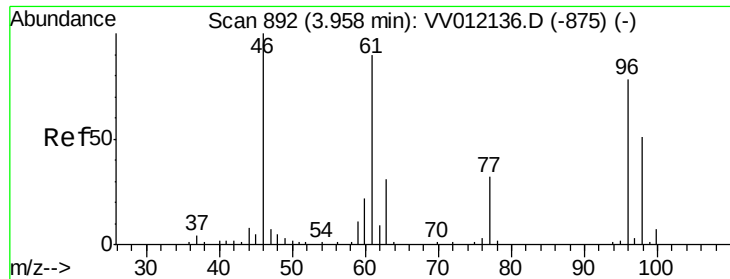
43 100

72 32.2 14.8 44.3



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 72.10 (71.80 to 72.80): VV0

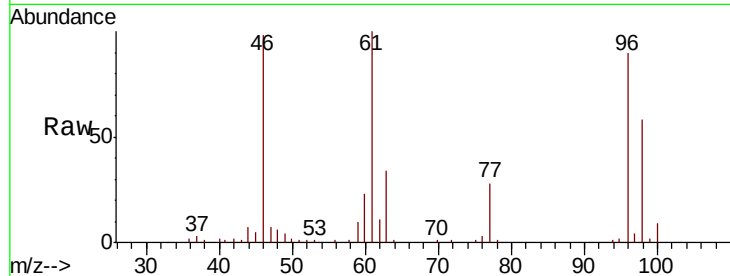




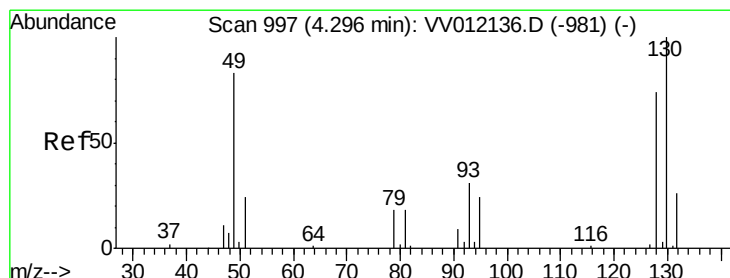
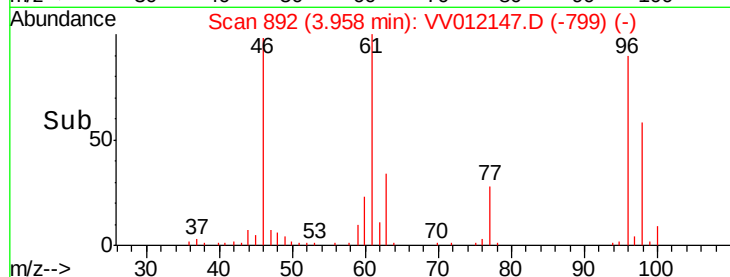
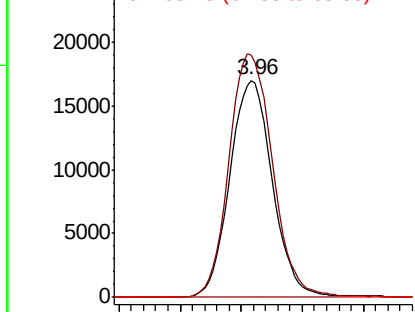
#22
 cis-1,2-Dichloroethene
 Concen: 4.556 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Instrument :
 MSVOA_V
 ClientSampled :
 VSTD00560

Tgt Ion: 96 Resp: 40961
 Ion Ratio Lower Upper
 96 100
 61 111.7 76.2 141.4
 68 0.0 0.0 0.0

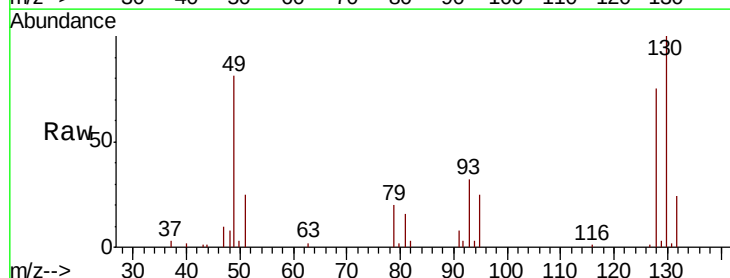


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0

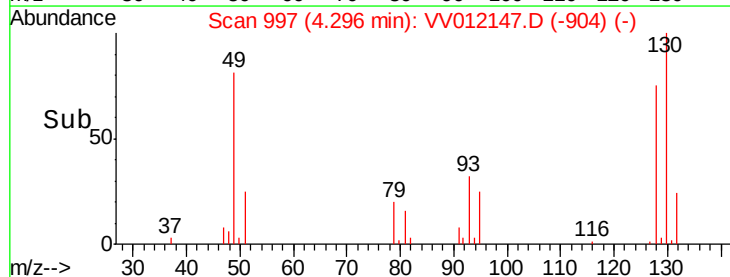
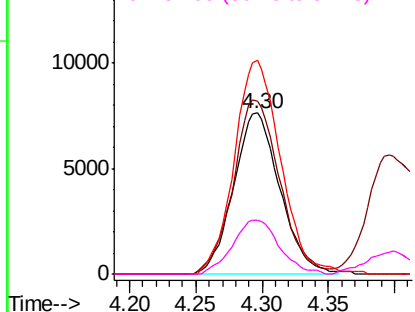


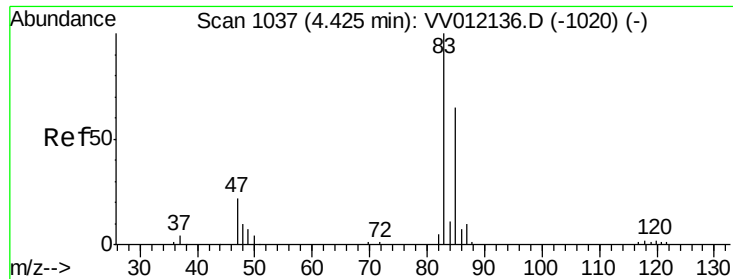
#23
 Bromochloromethane
 Concen: 4.333 ug/L
 RT: 4.30 min Scan# 997
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 128 Resp: 18555
 Ion Ratio Lower Upper
 128 100
 49 107.8 74.6 138.6
 130 132.8 94.0 174.6
 51 33.2 26.9 40.3



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VV0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VV0

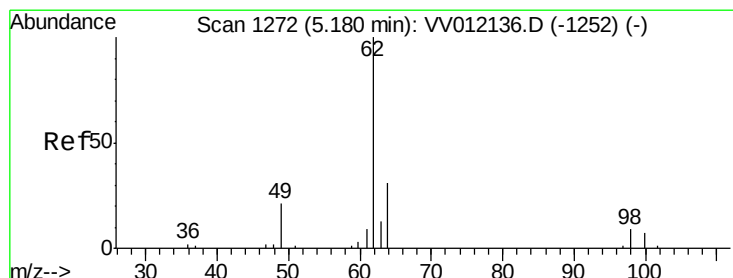
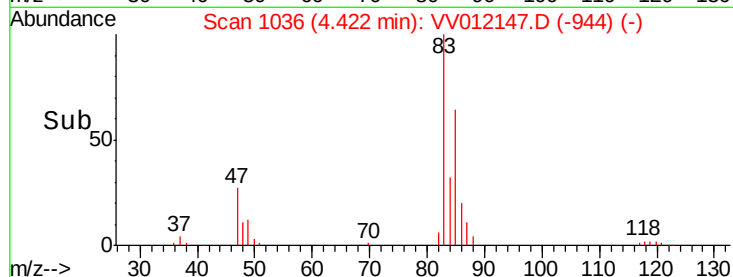
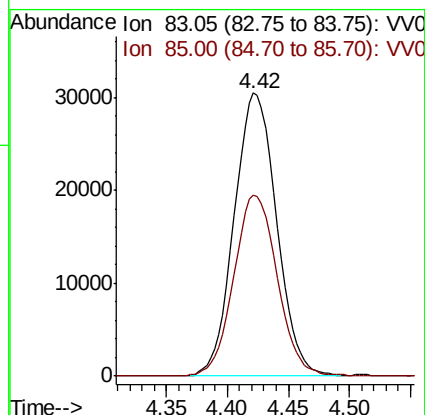
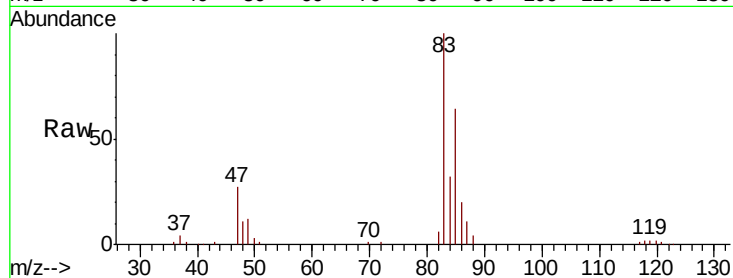




#25
Chloroform
Concen: 4.331 ug/L
RT: 4.42 min Scan# 1036
Delta R.T. -0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

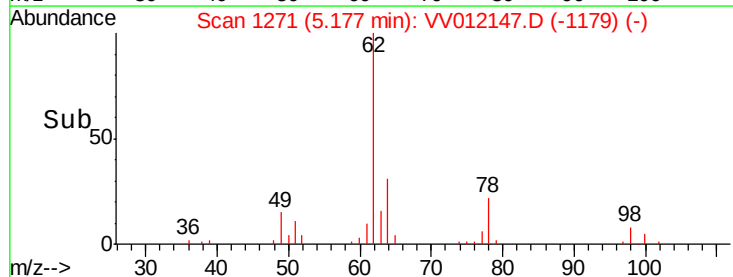
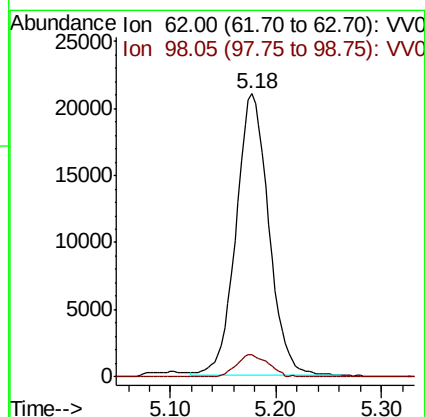
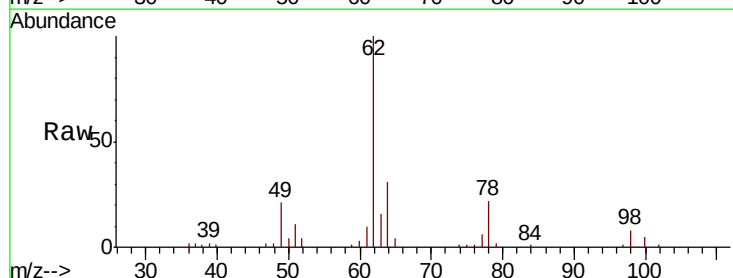
Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

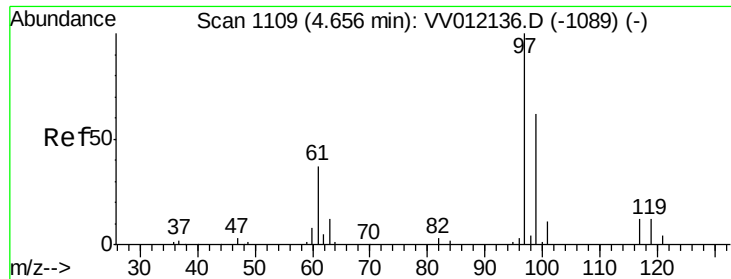
Tgt Ion: 83 Resp: 73585
Ion Ratio Lower Upper
83 100
85 63.9 47.1 87.5



#27
1,2-Dichloroethane
Concen: 4.395 ug/L
RT: 5.18 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Tgt Ion: 62 Resp: 44985
Ion Ratio Lower Upper
62 100
98 7.7 6.4 9.6

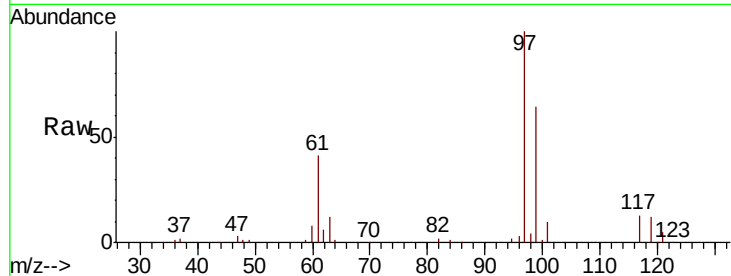




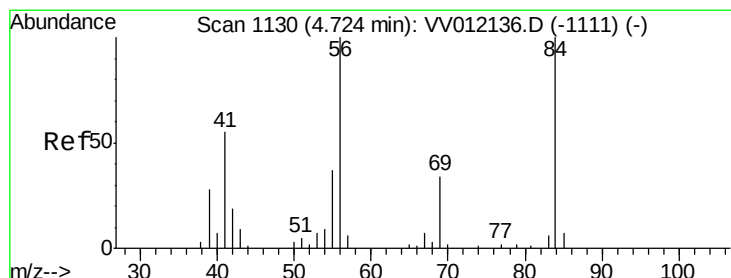
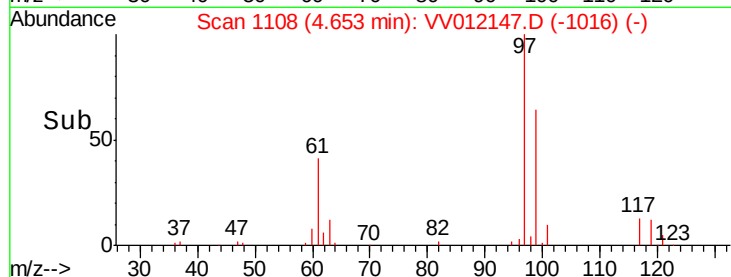
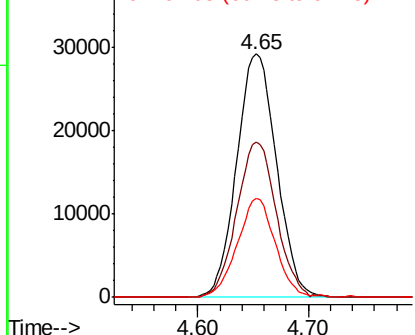
#29
 1,1,1-Trichloroethane
 Concen: 4.647 ug/L
 RT: 4.65 min Scan# 1108
 Delta R.T. -0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tgt Ion: 97 Resp: 73392
 Ion Ratio Lower Upper
 97 100
 99 63.2 52.0 78.0
 61 38.6 31.4 47.0

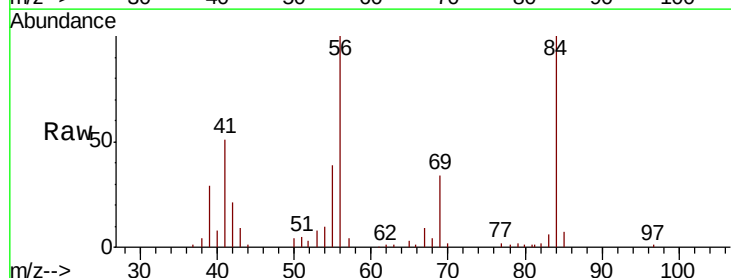


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

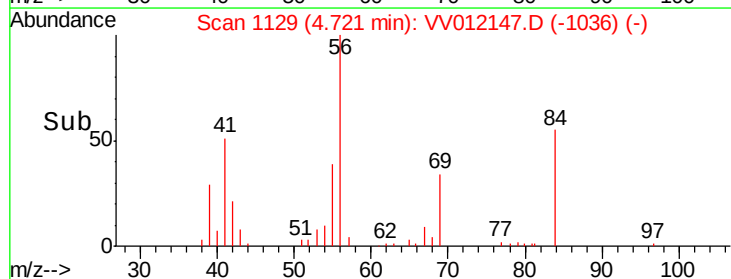
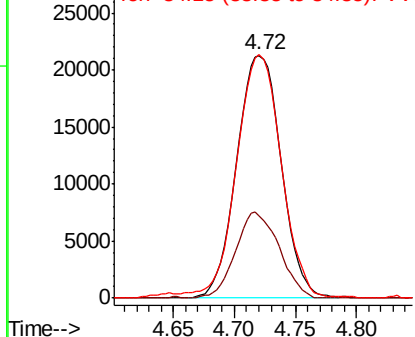


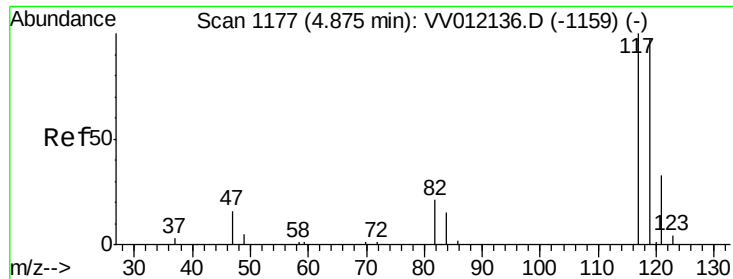
#30
 Cyclohexane
 Concen: 4.796 ug/L
 RT: 4.72 min Scan# 1129
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 56 Resp: 53765
 Ion Ratio Lower Upper
 56 100
 69 34.6 28.0 42.0
 84 99.2 85.4 128.0



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0





#31

Carbon tetrachloride

Concen: 4.624 ug/L

RT: 4.87 min Scan# 1176

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

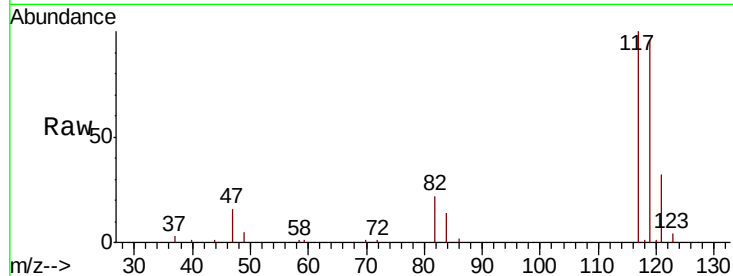
VSTD00560

Tgt Ion:117 Resp: 70642

Ion Ratio Lower Upper

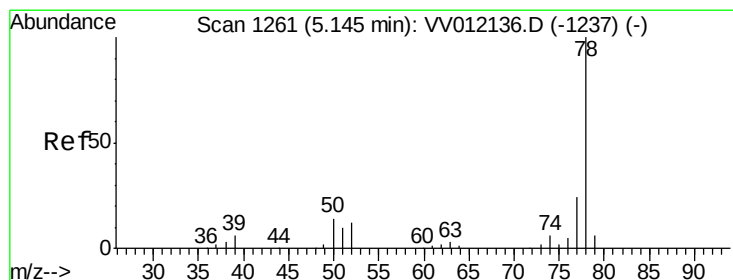
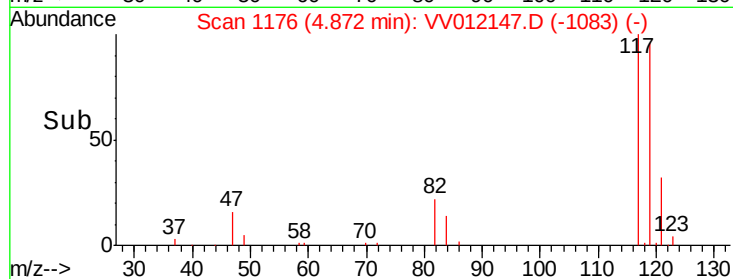
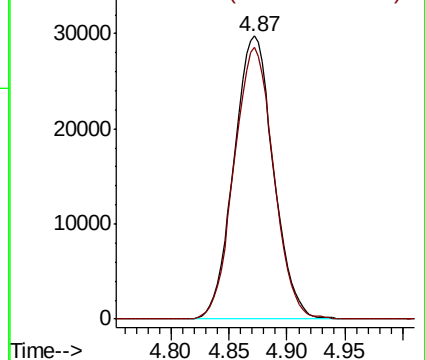
117 100

119 95.8 77.0 115.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.644 ug/L

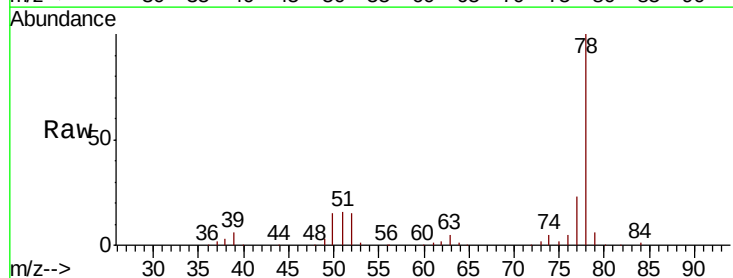
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

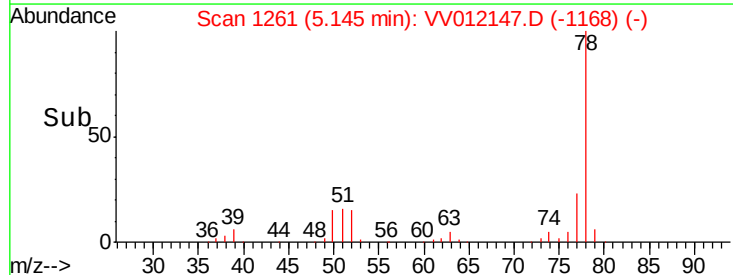
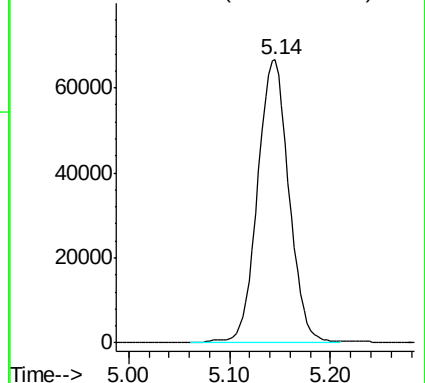
Lab File: VV012147.D

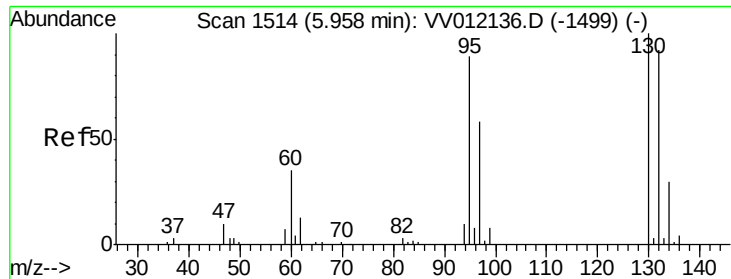
Acq: 09 Aug 2019 10:57

Tgt Ion: 78 Resp: 143863



Abundance Ion 78.10 (77.80 to 78.80): VV0

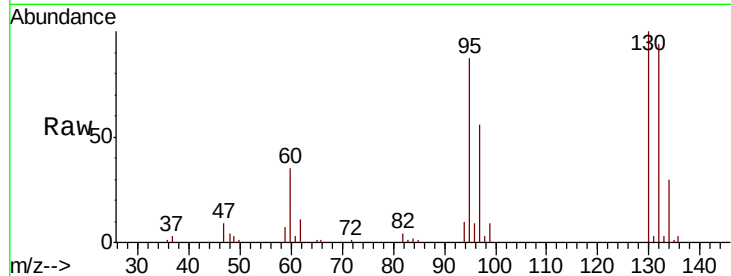




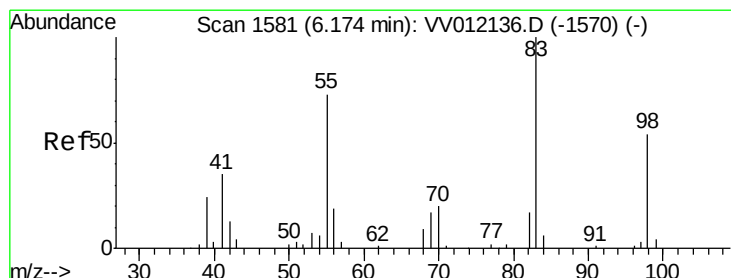
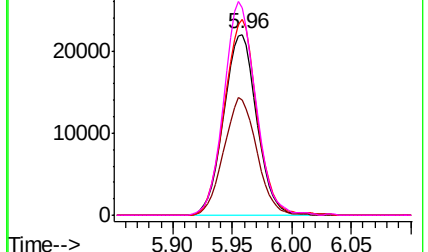
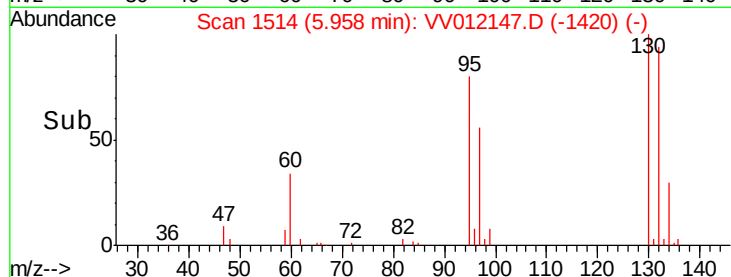
#34
 Trichloroethene
 Concen: 4.584 ug/L
 RT: 5.96 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tgt Ion: 95 Resp: 42346
 Ion Ratio Lower Upper
 95 100
 97 64.0 44.6 82.8
 132 108.3 75.9 141.1
 130 114.8 80.2 148.9

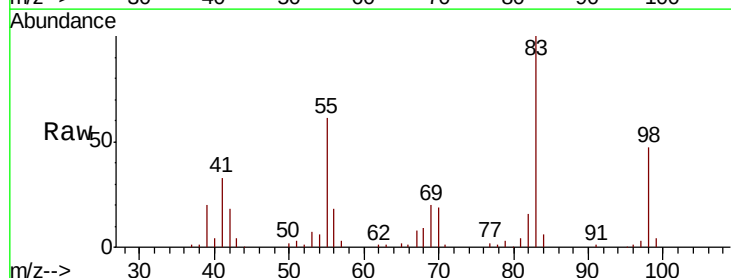


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): V
 Ion 129.95 (129.65 to 130.65): V

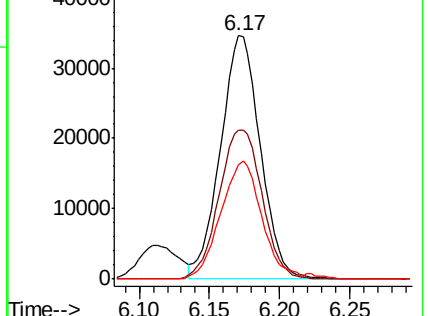
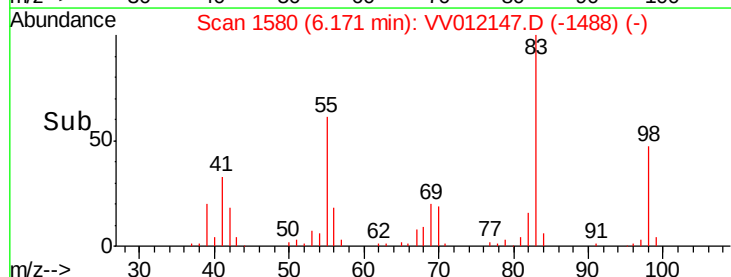


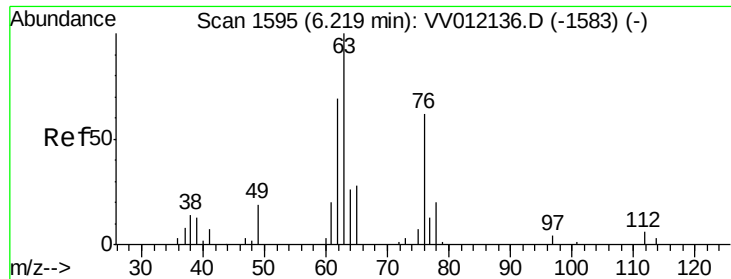
#35
 Methylcyclohexane
 Concen: 4.771 ug/L
 RT: 6.17 min Scan# 1580
 Delta R.T. -0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 83 Resp: 68343
 Ion Ratio Lower Upper
 83 100
 55 65.9 55.0 82.6
 98 49.6 40.4 60.6



Abundance Ion 83.15 (82.85 to 83.85): VV0
 Ion 55.10 (54.80 to 55.80): VV0
 Ion 98.15 (97.85 to 98.85): VV0

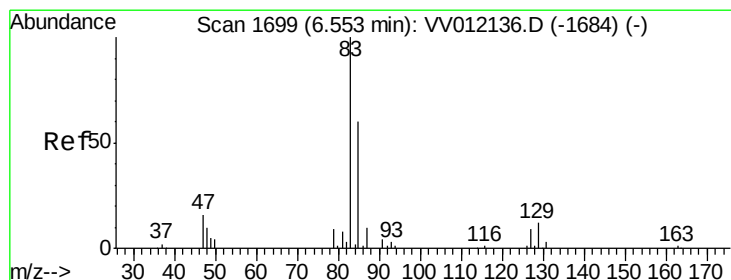
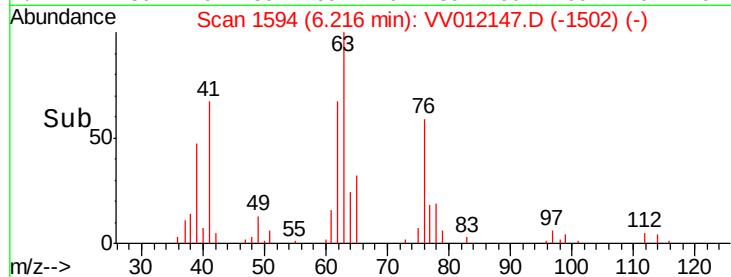
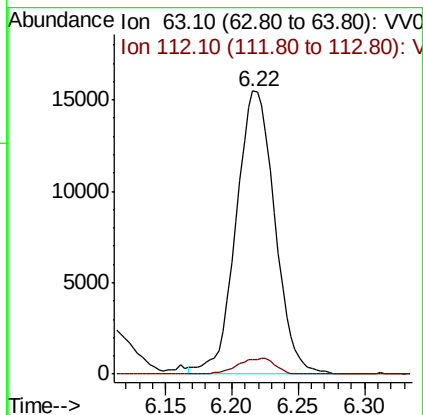
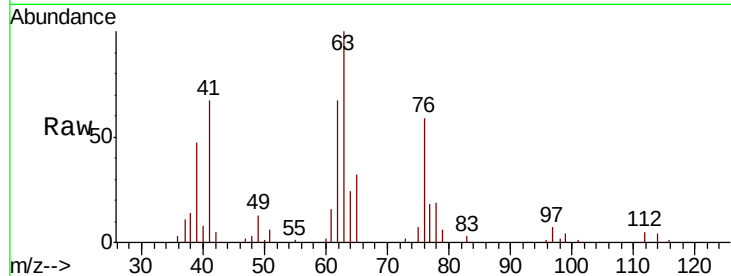




#37
 1,2-Dichloropropane
 Concen: 4.670 ug/L
 RT: 6.22 min Scan# 1594
 Delta R.T. -0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

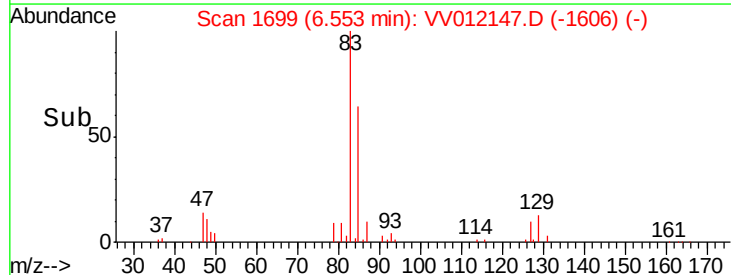
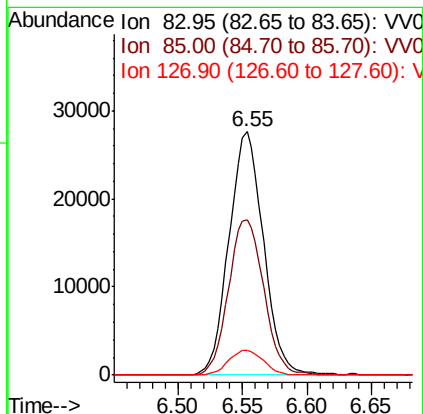
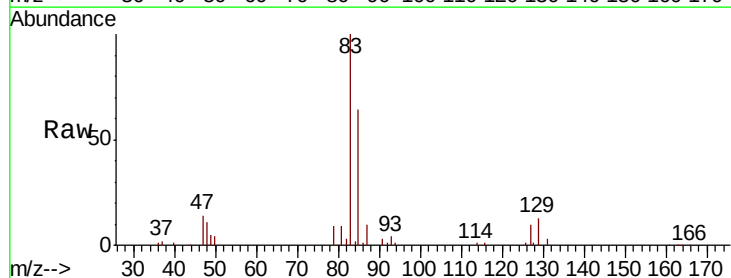
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

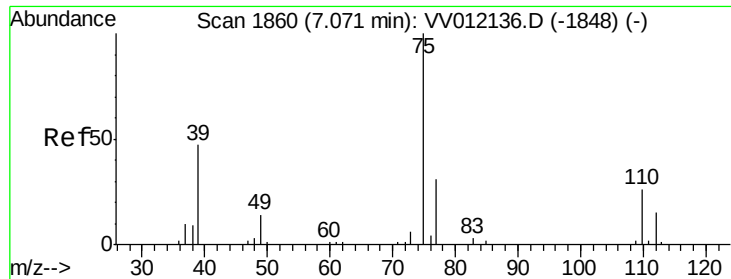
Tgt Ion: 63 Resp: 31446
 Ion Ratio Lower Upper
 63 100
 112 5.3 3.9 5.9



#38
 Bromodichloromethane
 Concen: 4.450 ug/L
 RT: 6.55 min Scan# 1699
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 83 Resp: 51430
 Ion Ratio Lower Upper
 83 100
 85 63.6 44.9 83.5
 127 10.2 8.2 12.2

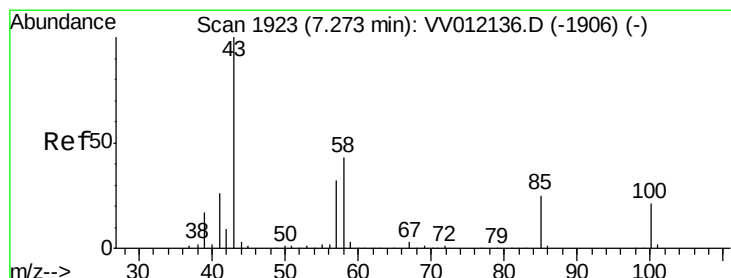
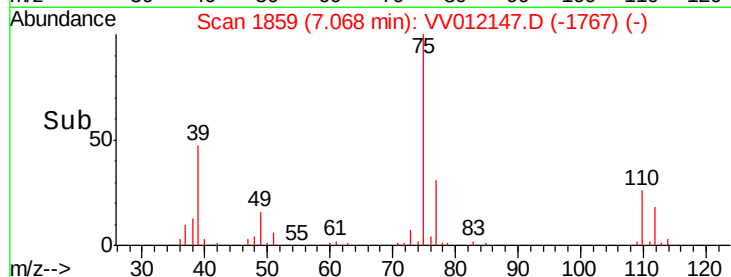
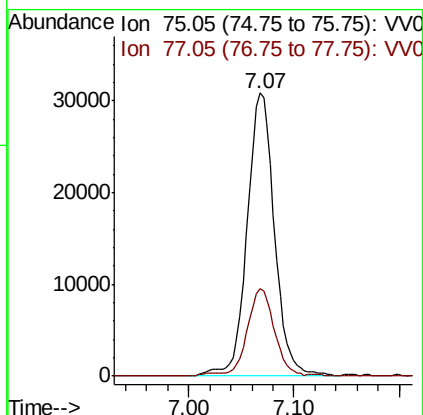
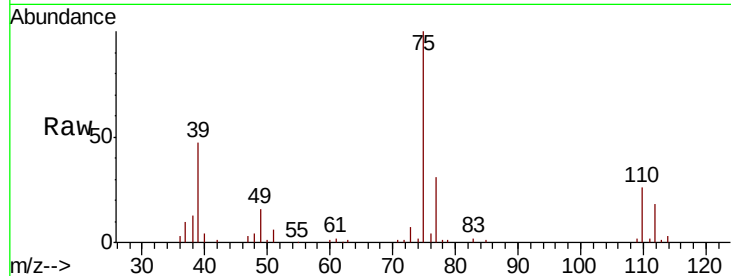




#39
 cis-1,3-Dichloropropene
 Concen: 4.580 ug/L
 RT: 7.07 min Scan# 1859
 Delta R.T. -0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

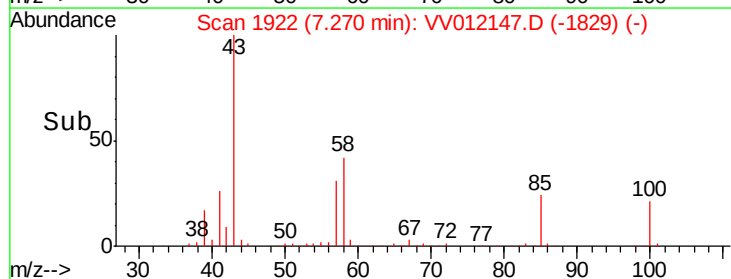
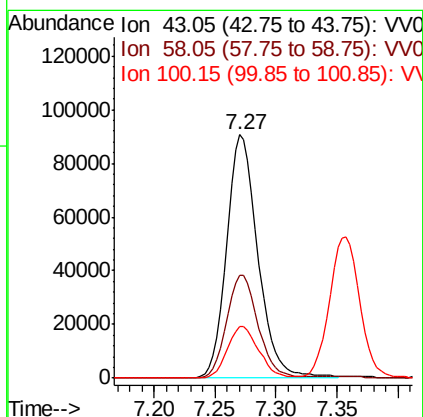
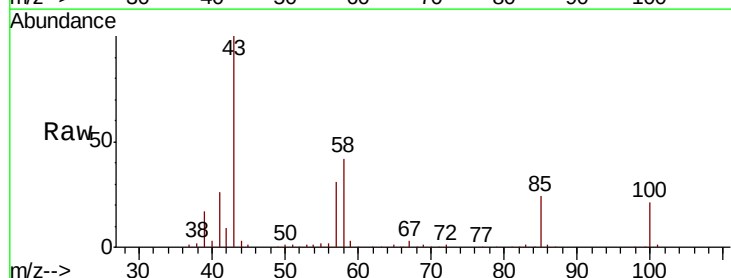
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

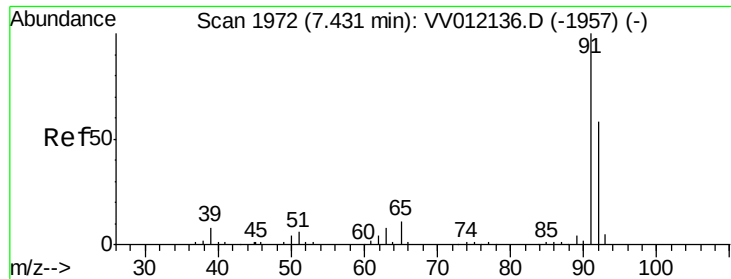
Tgt Ion: 75 Resp: 55918
 Ion Ratio Lower Upper
 75 100
 77 30.8 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 42.367 ug/L
 RT: 7.27 min Scan# 1922
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 43 Resp: 162527
 Ion Ratio Lower Upper
 43 100
 58 42.8 34.2 51.2
 100 21.3 17.0 25.6





#42

Toluene

Concen: 4.602 ug/L

RT: 7.43 min Scan# 1971

Delta R.T. -0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampled :

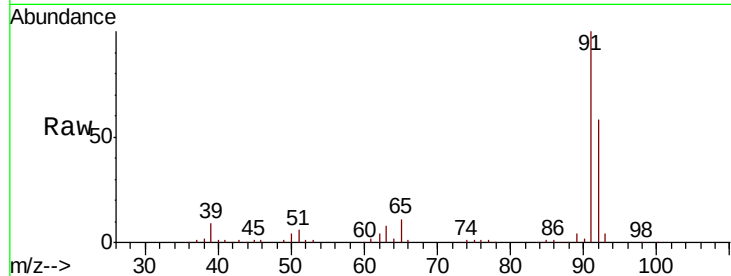
VSTD00560

Tgt Ion: 91 Resp: 166353

Ion Ratio Lower Upper

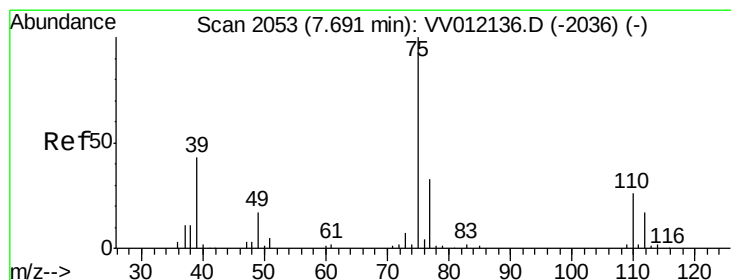
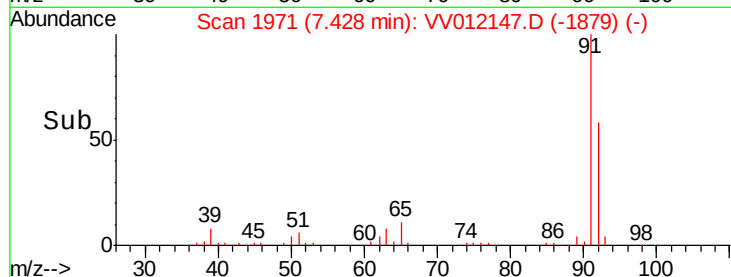
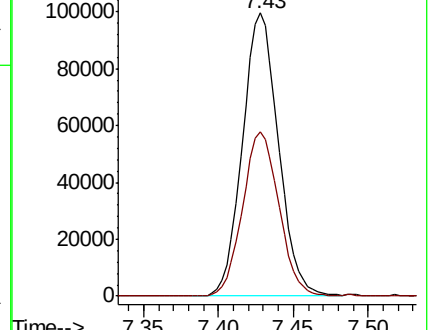
91 100

92 58.1 41.4 77.0



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 4.592 ug/L

RT: 7.69 min Scan# 2053

Delta R.T. 0.00 min

Lab File: VV012147.D

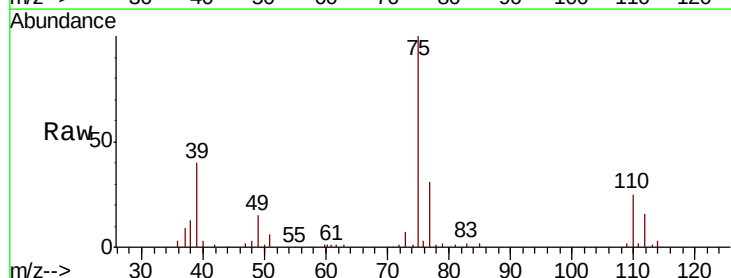
Acq: 09 Aug 2019 10:57

Tgt Ion: 75 Resp: 45245

Ion Ratio Lower Upper

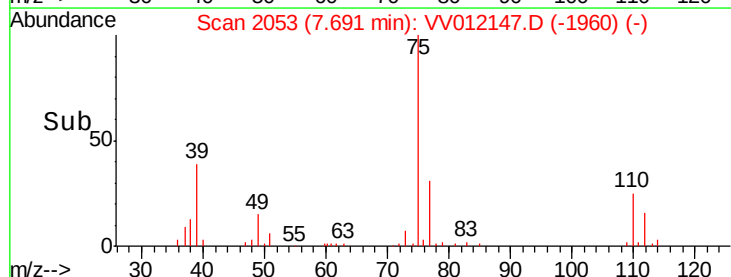
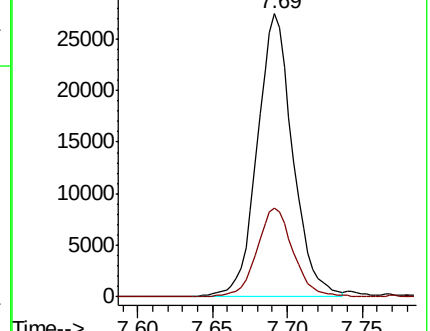
75 100

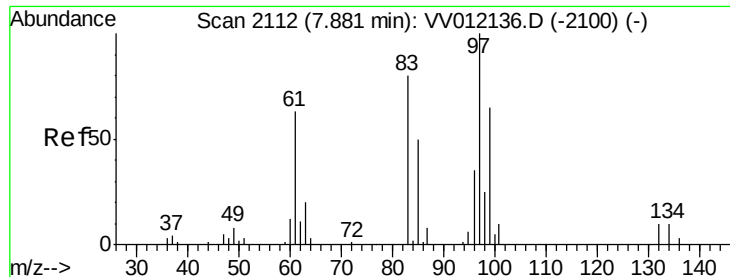
77 31.4 22.0 41.0



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

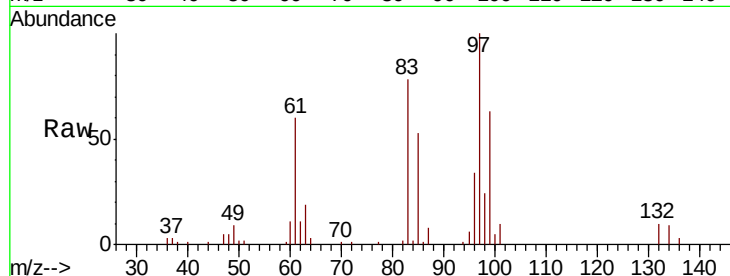




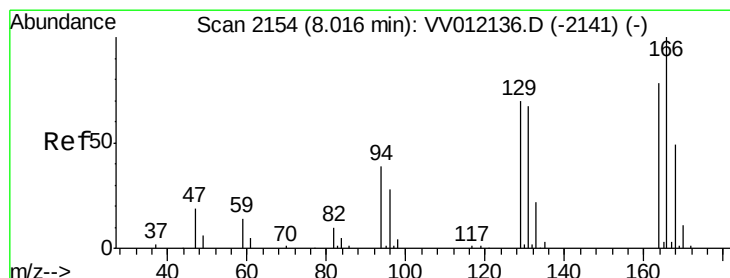
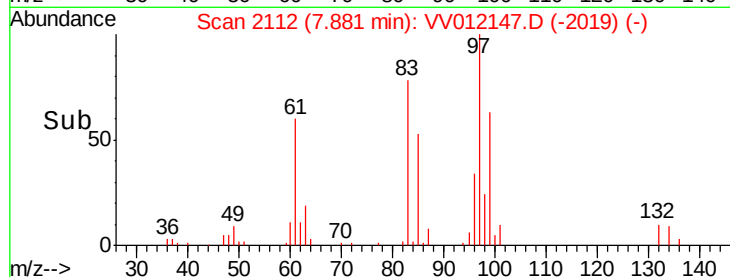
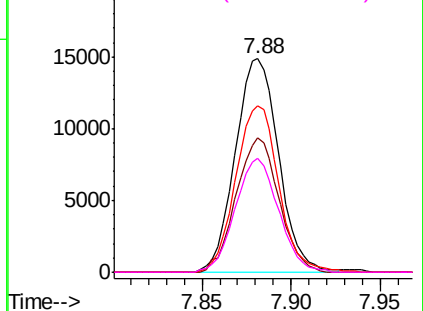
#45
 1,1,2-Trichloroethane
 Concen: 4.374 ug/L
 RT: 7.88 min Scan# 2112
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

Tgt Ion:	97	Resp:	25272
Ion	Ratio	Lower	Upper
97	100		
99	63.1	45.2	84.0
83	78.2	56.8	105.4
85	53.1	37.9	70.5

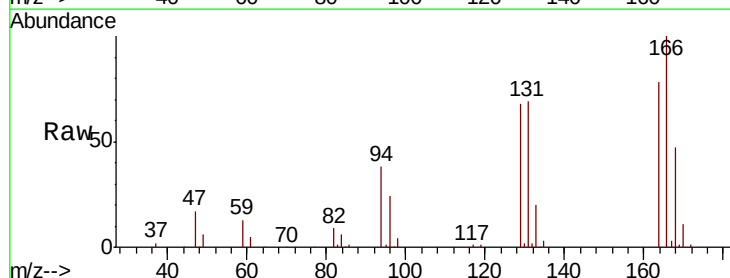


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

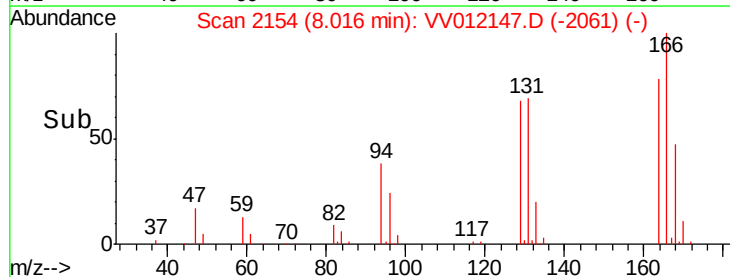
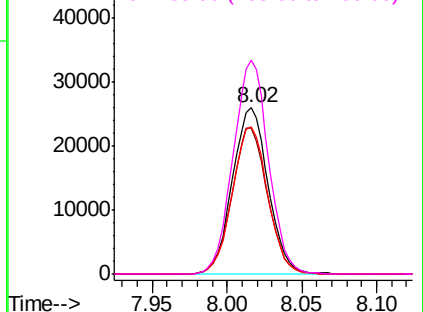


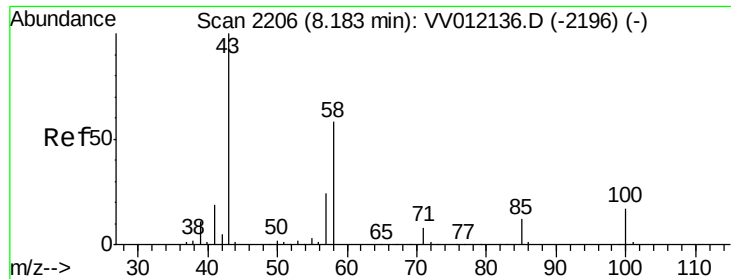
#47
 Tetrachloroethene
 Concen: 4.834 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion:	164	Resp:	43198
Ion	Ratio	Lower	Upper
164	100		
129	87.8	62.2	115.4
131	88.3	60.1	111.5
166	128.5	92.2	171.2



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

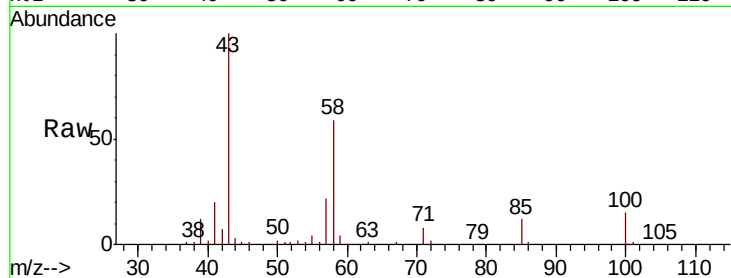




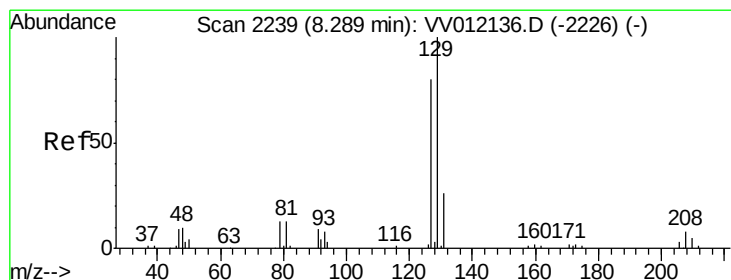
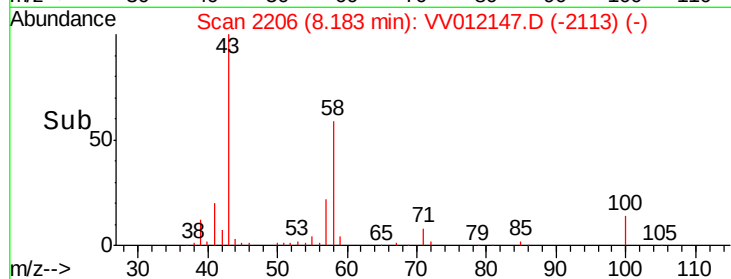
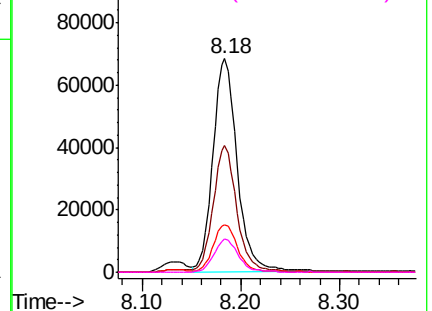
#48
2-Hexanone
Concen: 43.715 ug/L
RT: 8.18 min Scan# 2206
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tgt Ion:	43	Resp:	117497
Ion	Ratio	Lower	Upper
43	100		
58	55.8	46.4	69.6
57	22.7	17.7	26.5
100	15.6	12.9	19.3

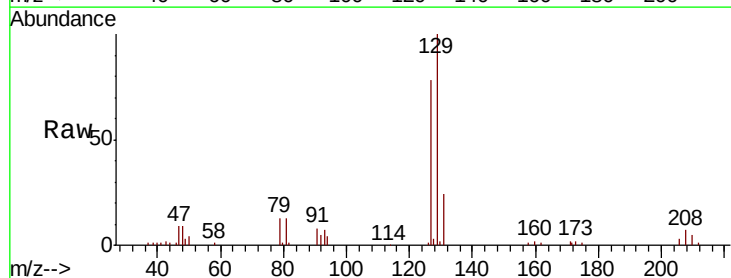


Abundance Ion 43.05 (42.75 to 43.75): VV012147.D (-2113) (-)
Ion 58.05 (57.75 to 58.75): VV012147.D (-2113) (-)
Ion 57.20 (56.90 to 57.90): VV012147.D (-2113) (-)
Ion 100.15 (99.85 to 100.85): VV012147.D (-2113) (-)

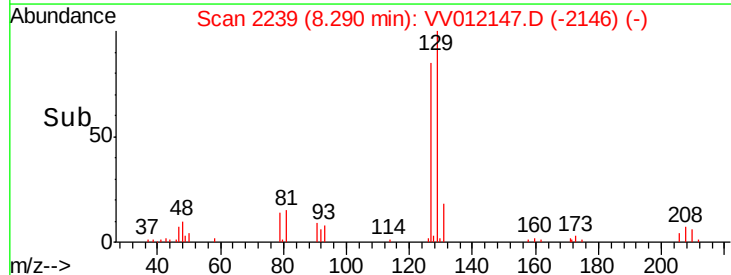
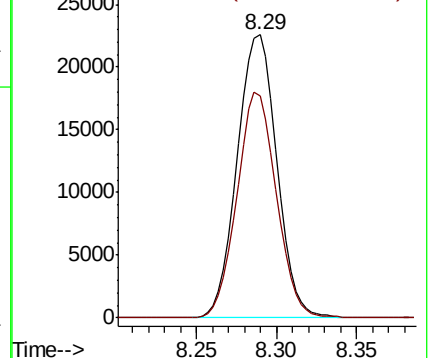


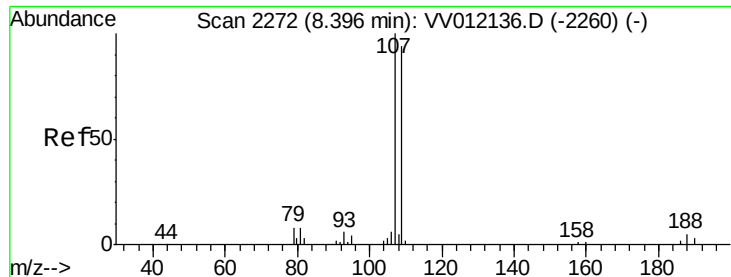
#49
Dibromochloromethane
Concen: 4.389 ug/L
RT: 8.29 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Tgt Ion:	129	Resp:	38128
Ion	Ratio	Lower	Upper
129	100		
127	78.2	53.4	99.2



Abundance Ion 128.95 (128.65 to 129.65): VV012147.D (-2146) (-)
Ion 126.90 (126.60 to 127.60): VV012147.D (-2146) (-)

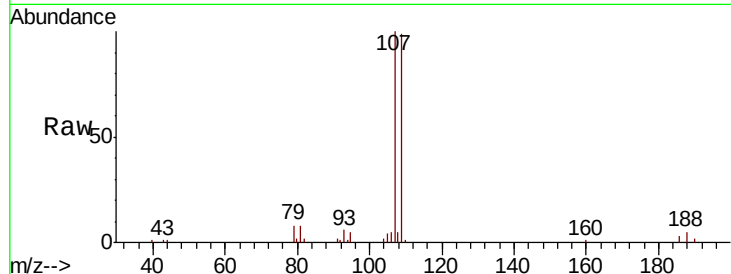




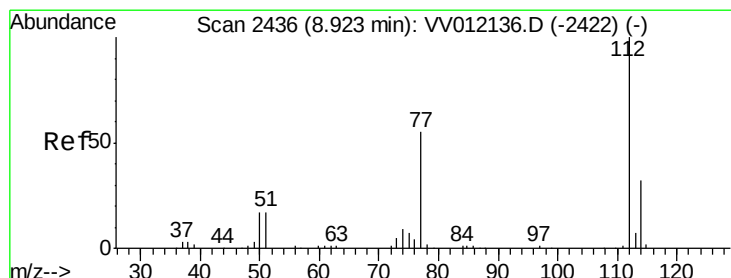
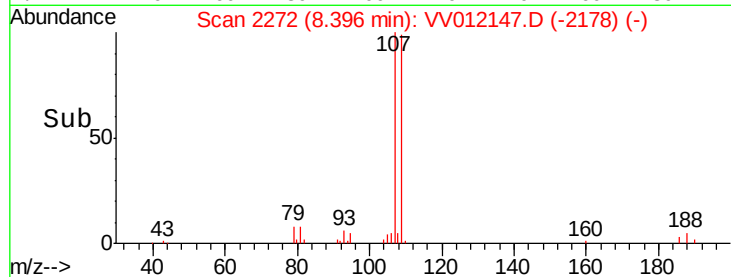
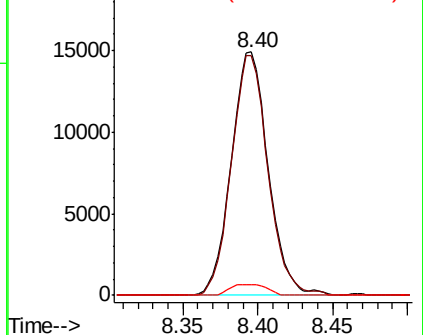
#50
1,2-Dibromoethane
Concen: 4.424 ug/L
RT: 8.40 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Instrument :
MSVOA_V
ClientSampleId :
VSTD00560

Tgt Ion:107 Resp: 25658
Ion Ratio Lower Upper
107 100
109 98.6 65.1 120.9
188 4.5 3.5 5.3

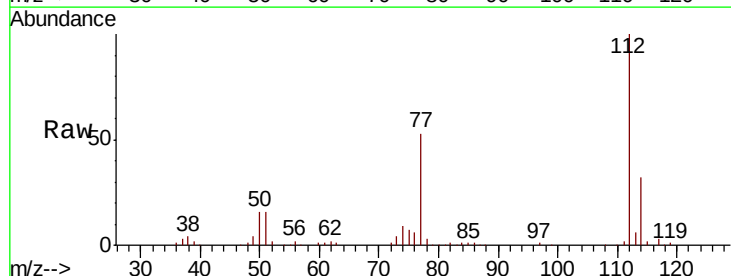


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

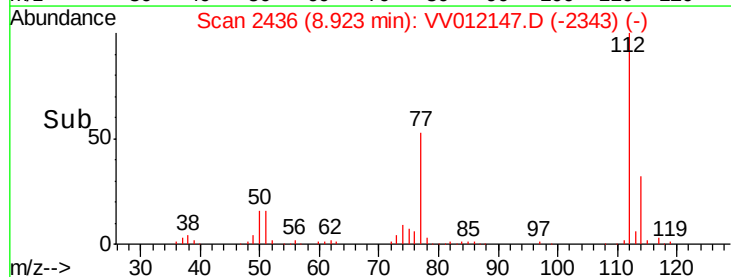
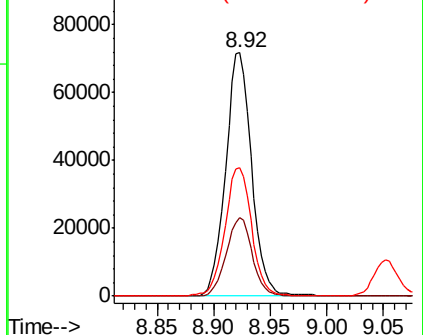


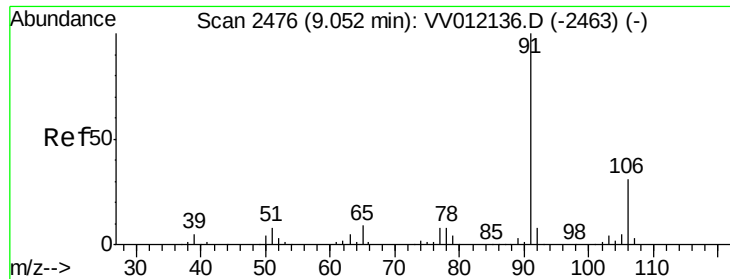
#51
Chlorobenzene
Concen: 4.672 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV012147.D
Acq: 09 Aug 2019 10:57

Tgt Ion:112 Resp: 115065
Ion Ratio Lower Upper
112 100
114 32.0 23.0 42.8
77 52.6 41.8 62.8



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.692 ug/L

RT: 9.05 min Scan# 2476

Delta R.T. -0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

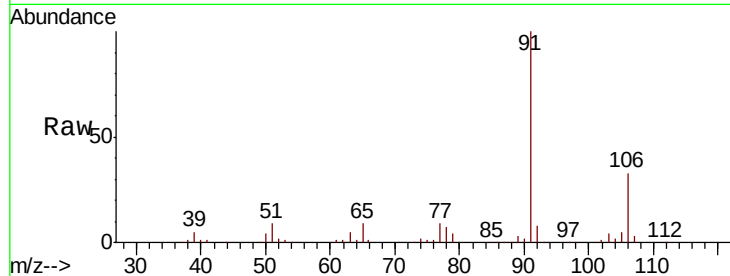
VSTD00560

Tgt Ion: 91 Resp: 192369

Ion Ratio Lower Upper

91 100

106 32.6 23.7 43.9



Abundance Ion 91.15 (90.85 to 91.85): VV012147.D (-2384) (-)

Ion 106.15 (105.85 to 106.85): VV012147.D (-2384) (-)

9.05

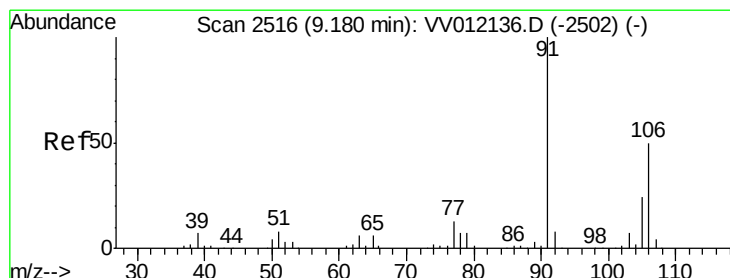
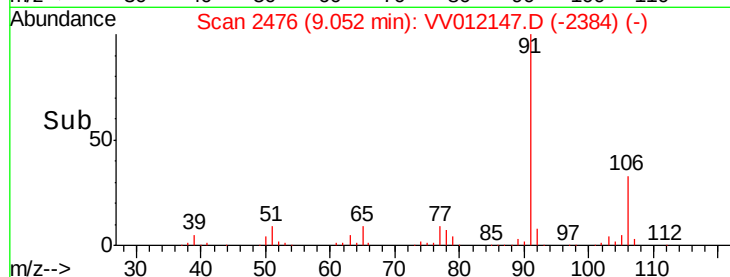
100000

50000

0

Time-->

9.00 9.05 9.10 9.15



#53

m,p-xylene

Concen: 4.712 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV012147.D

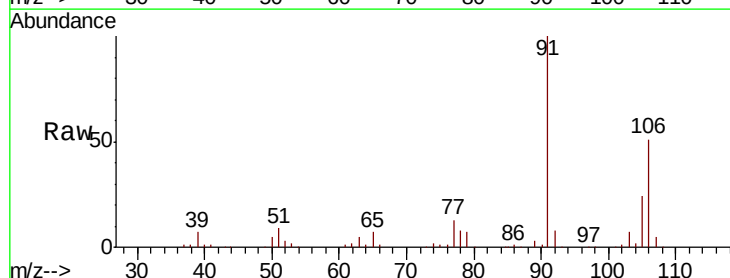
Acq: 09 Aug 2019 10:57

Tgt Ion: 106 Resp: 75537

Ion Ratio Lower Upper

106 100

91 195.7 142.2 264.0



Abundance Ion 106.15 (105.85 to 106.85): VV012147.D (-2423) (-)

Ion 91.15 (90.85 to 91.85): VV012147.D (-2423) (-)

9.18

100000

80000

60000

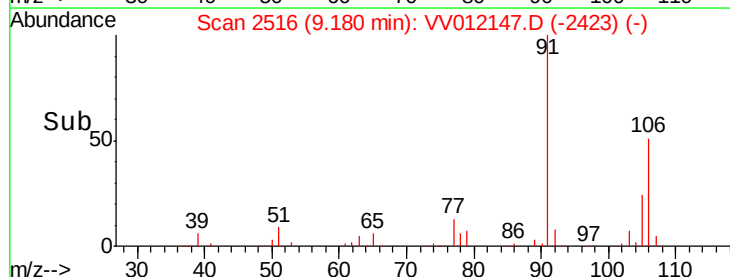
40000

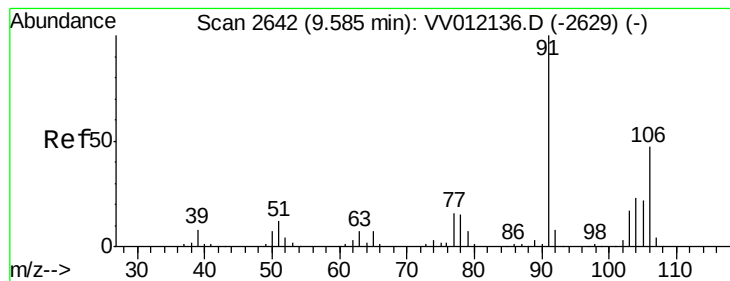
20000

0

Time-->

9.10 9.15 9.20 9.25 9.30





#54

o-xylene

Concen: 4.584 ug/L

RT: 9.59 min Scan# 2642

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

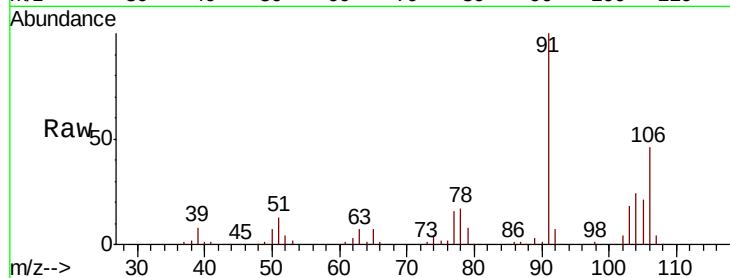
VSTD00560

Tgt Ion:106 Resp: 71179

Ion Ratio Lower Upper

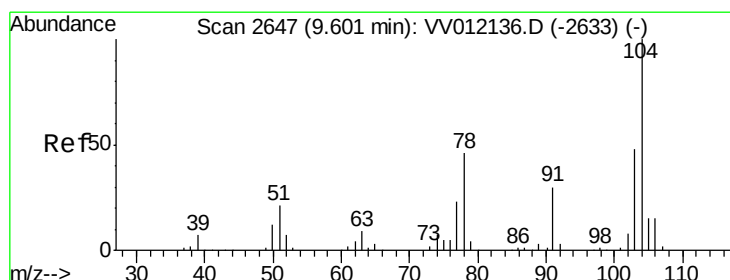
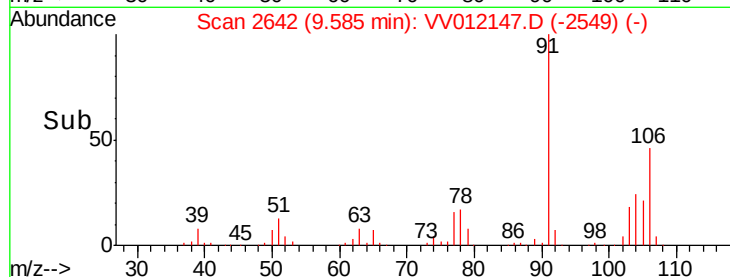
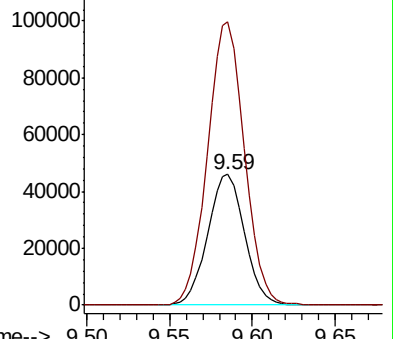
106 100

91 216.3 150.8 280.1



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#55

Styrene

Concen: 4.645 ug/L

RT: 9.60 min Scan# 2647

Delta R.T. 0.00 min

Lab File: VV012147.D

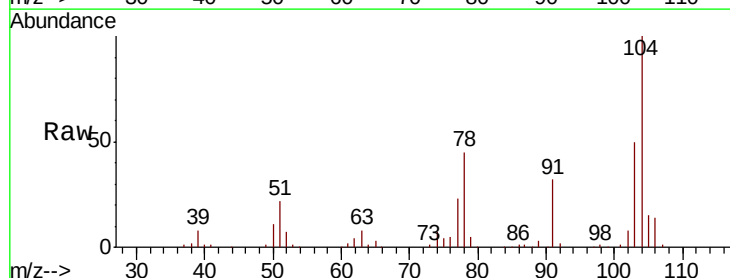
Acq: 09 Aug 2019 10:57

Tgt Ion:104 Resp: 119999

Ion Ratio Lower Upper

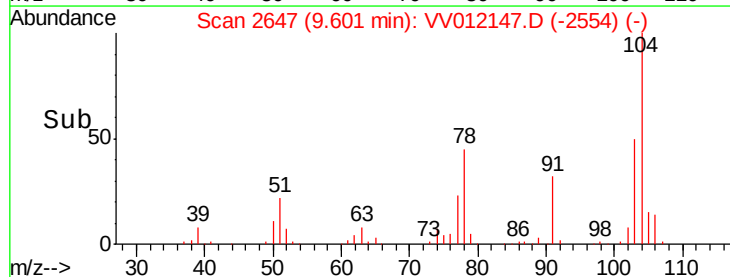
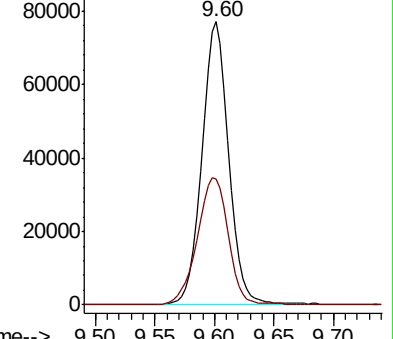
104 100

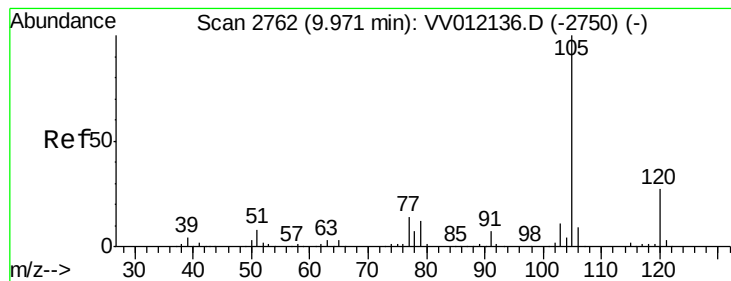
78 44.6 31.5 58.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0





#56

Isopropylbenzene

Concen: 4.772 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. -0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

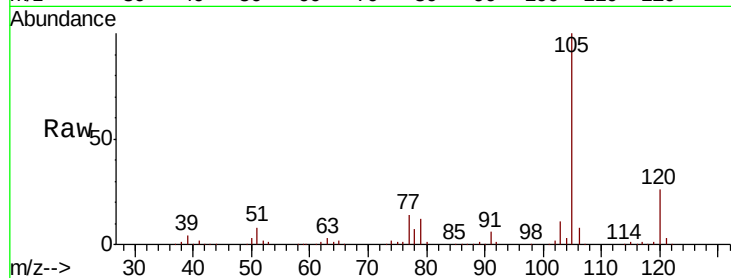
Tgt Ion: 105 Resp: 205450

Ion Ratio Lower Upper

105 100

120 26.3 21.4 32.2

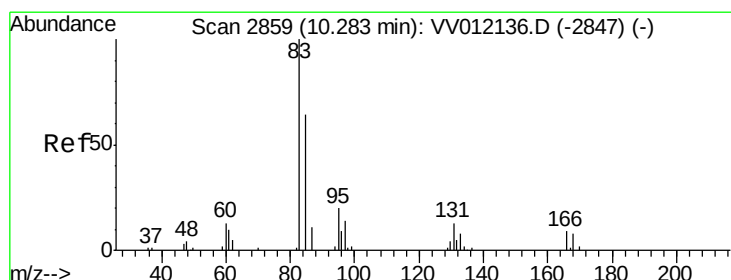
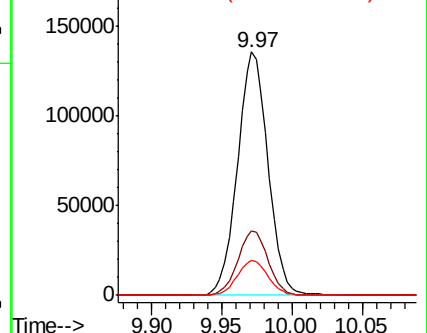
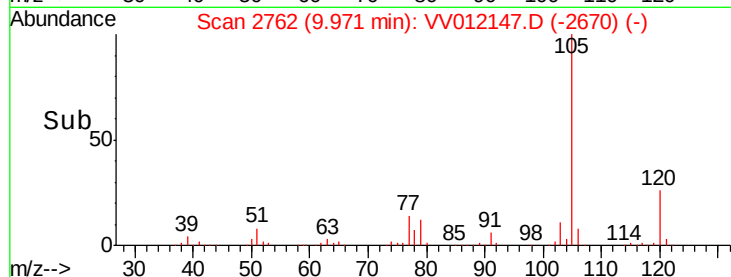
77 14.5 11.7 17.5



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.340 ug/L

RT: 10.28 min Scan# 2859

Delta R.T. -0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

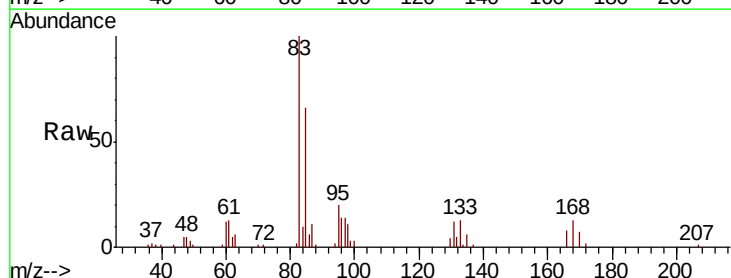
Tgt Ion: 83 Resp: 27725

Ion Ratio Lower Upper

83 100

85 66.3 45.1 83.9

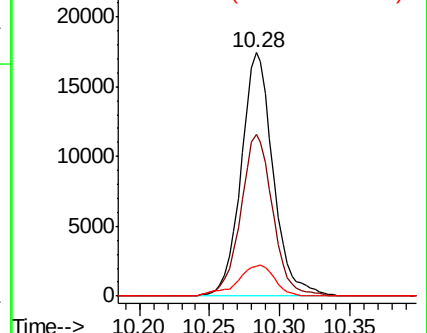
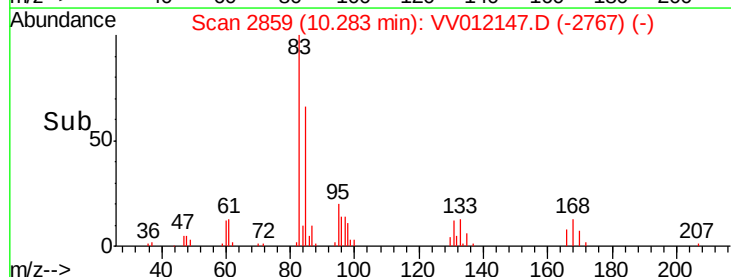
131 12.5 11.1 16.7

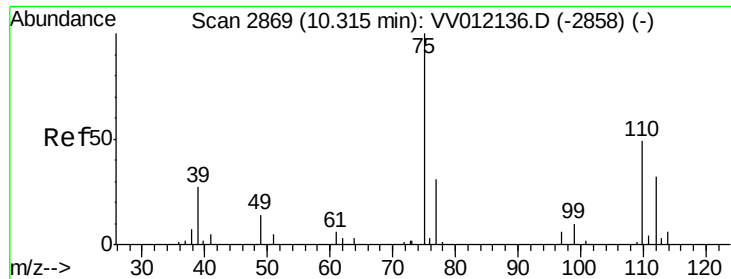


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.207 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

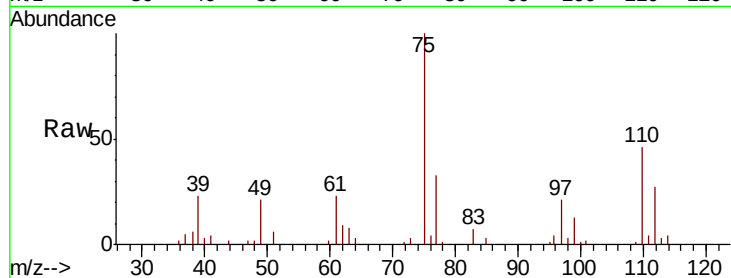
VSTD00560

Tgt Ion: 75 Resp: 20564

Ion Ratio Lower Upper

75 100

77 33.7 26.4 39.6



Abundance Ion 75.00 (74.70 to 75.70): VV012136.D (-2858) (-)

Ion 77.00 (76.70 to 77.70): VV012136.D (-2858) (-)

10.32

15000

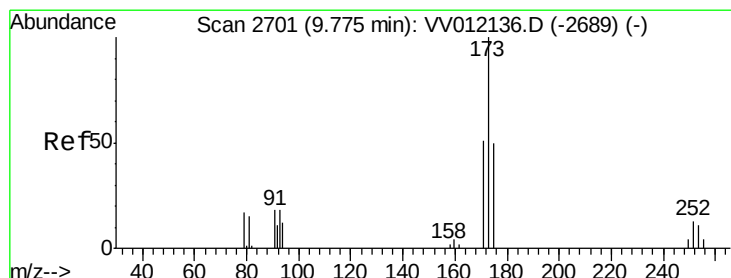
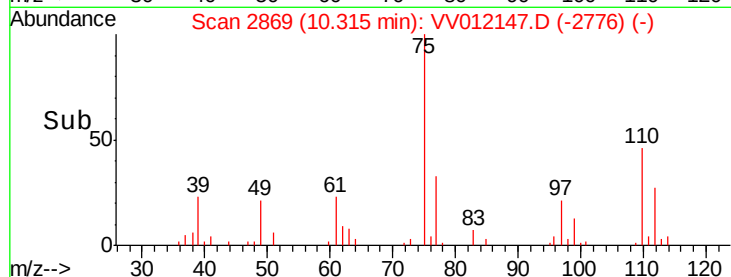
10000

5000

0

Time-->

10.25 10.30 10.35



#61

Bromoform

Concen: 4.218 ug/L

RT: 9.77 min Scan# 2700

Delta R.T. -0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

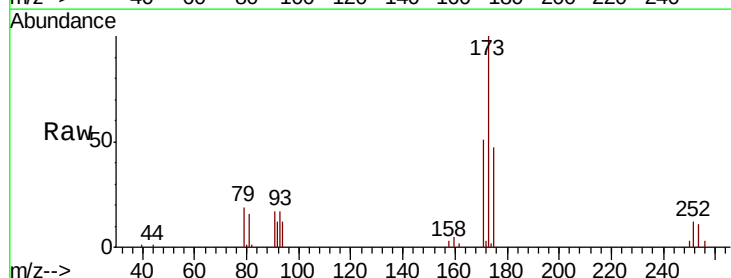
Tgt Ion: 173 Resp: 23650

Ion Ratio Lower Upper

173 100

175 48.6 39.0 58.6

254 11.0 8.4 12.6



Abundance Ion 172.90 (172.60 to 173.60): VV012136.D (-2689) (-)

Ion 174.90 (174.60 to 175.60): VV012136.D (-2689) (-)

Ion 253.75 (253.45 to 254.45): VV012136.D (-2689) (-)

9.77

20000

15000

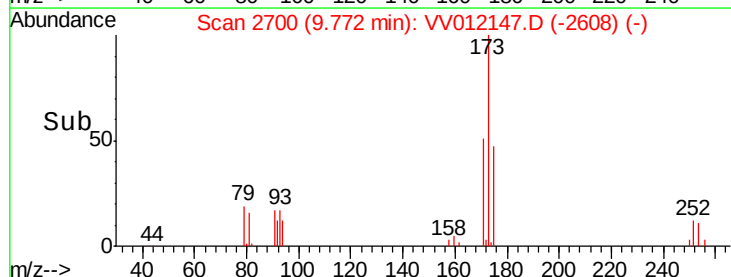
10000

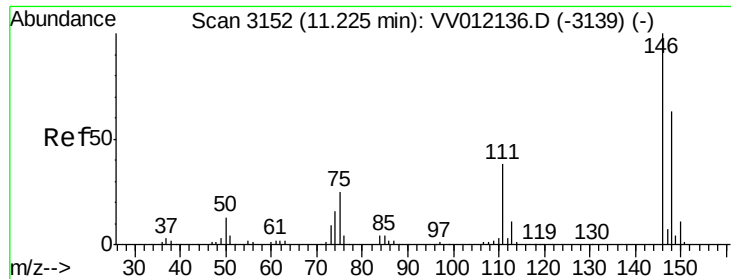
5000

0

Time-->

9.70 9.75 9.80 9.85

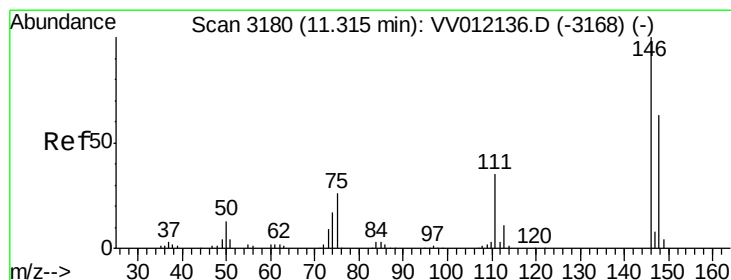
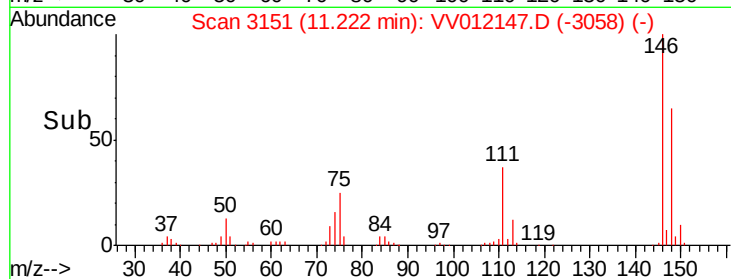
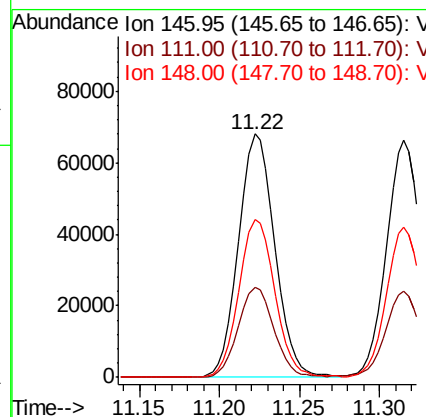
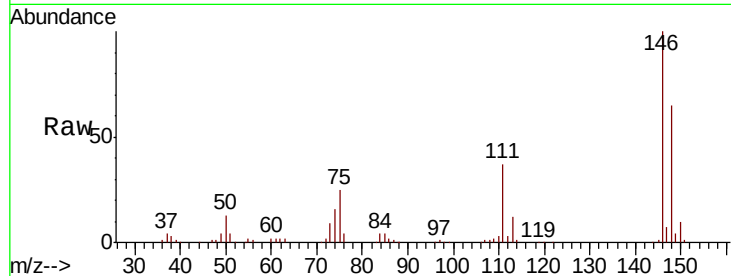




#62
 1,3-Dichlorobenzene
 Concen: 4.726 ug/L
 RT: 11.22 min Scan# 3151
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

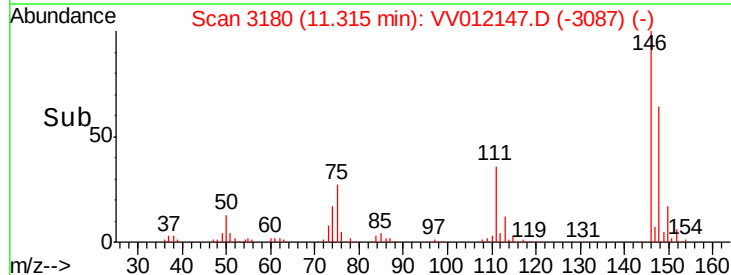
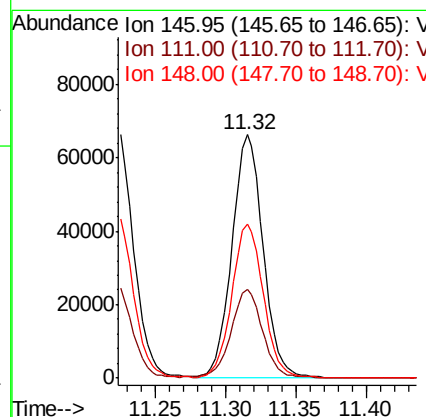
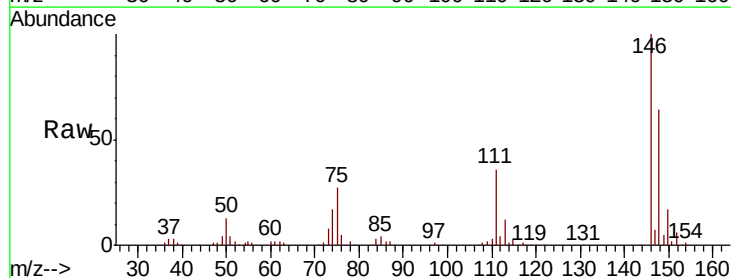
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

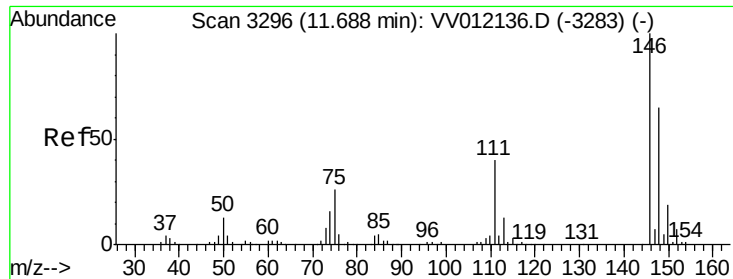
Tgt Ion:146 Resp: 105052
 Ion Ratio Lower Upper
 146 100
 111 37.2 26.9 49.9
 148 65.0 44.6 82.8



#63
 1,4-Dichlorobenzene
 Concen: 4.587 ug/L
 RT: 11.32 min Scan# 3180
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion:146 Resp: 102203
 Ion Ratio Lower Upper
 146 100
 111 36.5 23.7 43.9
 148 63.5 43.9 81.5

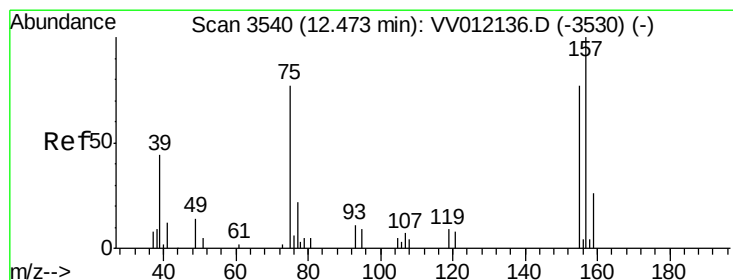
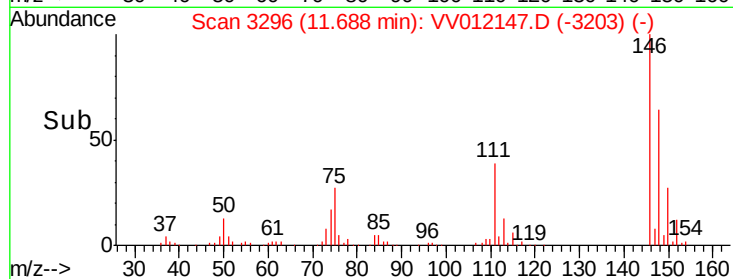
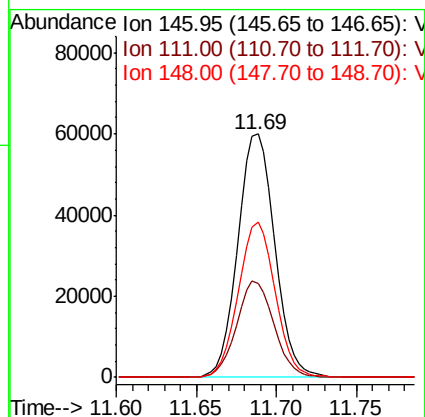
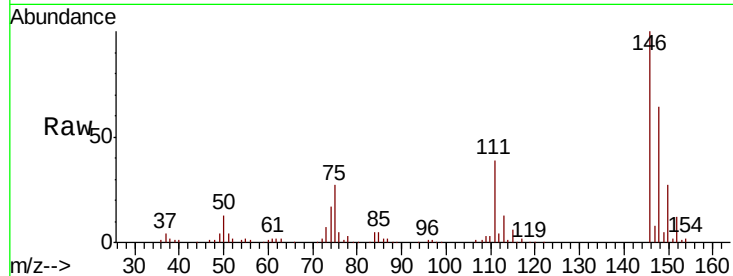




#65
 1,2-Dichlorobenzene
 Concen: 4.567 ug/L
 RT: 11.69 min Scan# 3296
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

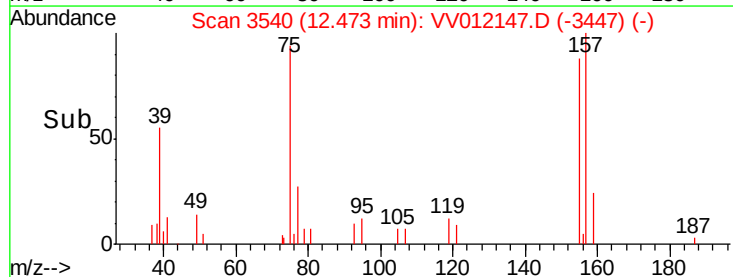
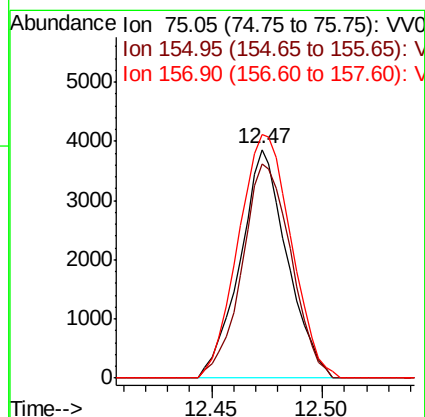
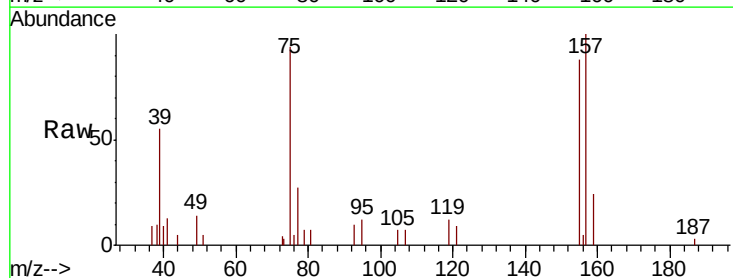
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

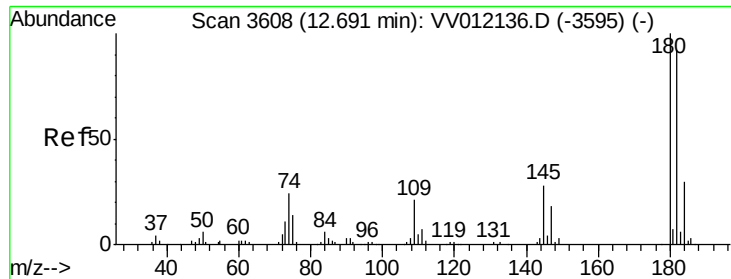
Tgt Ion: 146 Resp: 94228
 Ion Ratio Lower Upper
 146 100
 111 38.6 30.6 45.8
 148 63.7 51.6 77.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.279 ug/L
 RT: 12.47 min Scan# 3540
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion: 75 Resp: 5725
 Ion Ratio Lower Upper
 75 100
 155 93.8 75.2 112.8
 157 106.5 96.7 145.1

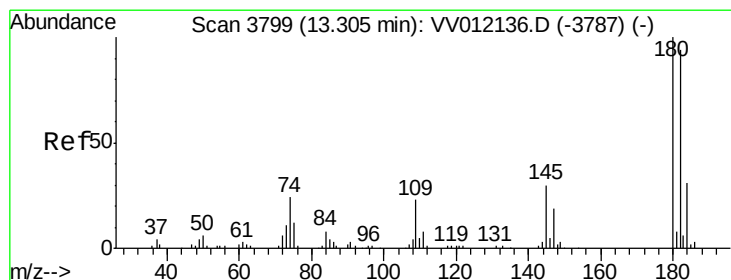
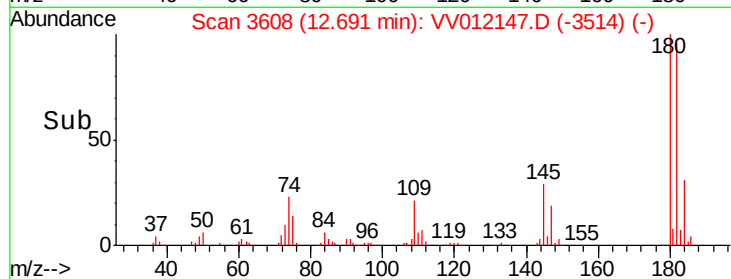
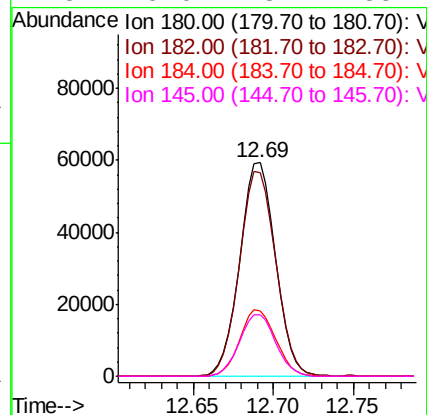
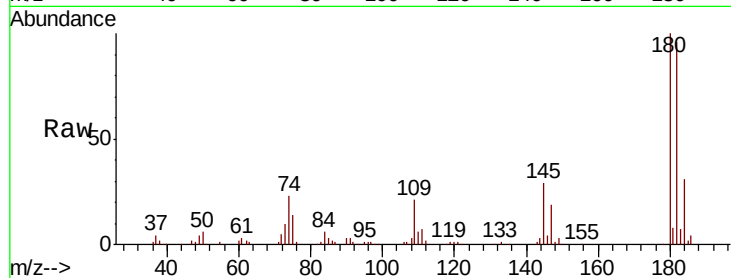




#67
 1,3,5-Trichlorobenzene
 Concen: 4.718 ug/L
 RT: 12.69 min Scan# 3608
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

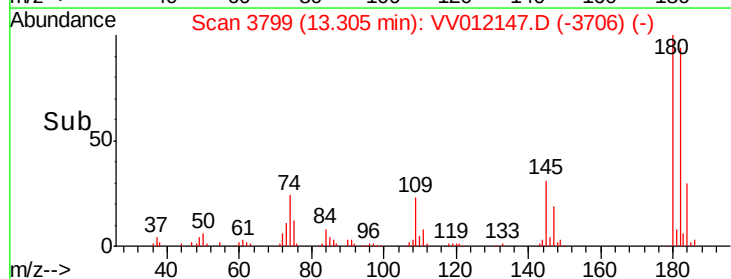
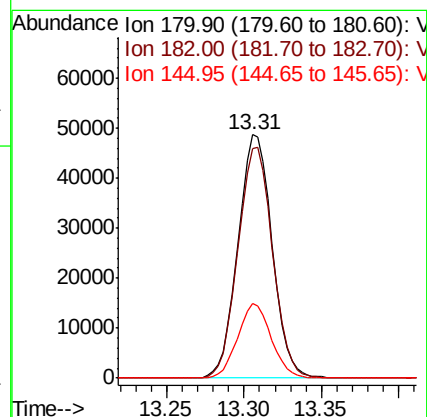
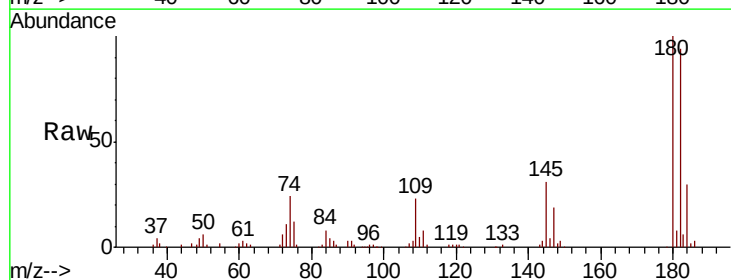
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00560

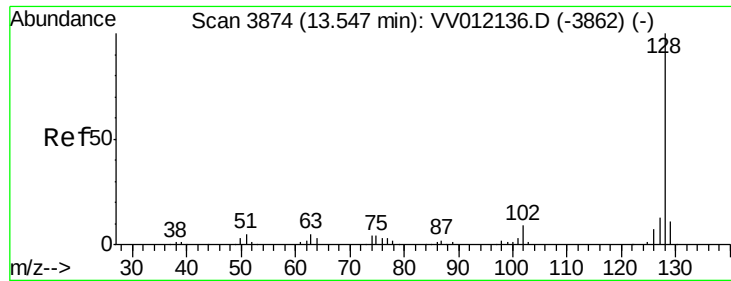
Tgt Ion:180 Resp: 90050
 Ion Ratio Lower Upper
 180 100
 182 97.4 76.8 115.2
 184 31.1 25.0 37.4
 145 29.0 23.4 35.2



#68
 1,2,4-trichlorobenzene
 Concen: 4.698 ug/L
 RT: 13.31 min Scan# 3799
 Delta R.T. 0.00 min
 Lab File: VV012147.D
 Acq: 09 Aug 2019 10:57

Tgt Ion:180 Resp: 74607
 Ion Ratio Lower Upper
 180 100
 182 96.0 76.6 115.0
 145 29.9 23.4 35.2





#69

Naphthalene

Concen: 4.189 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

Instrument :

MSVOA_V

ClientSampleId :

VSTD00560

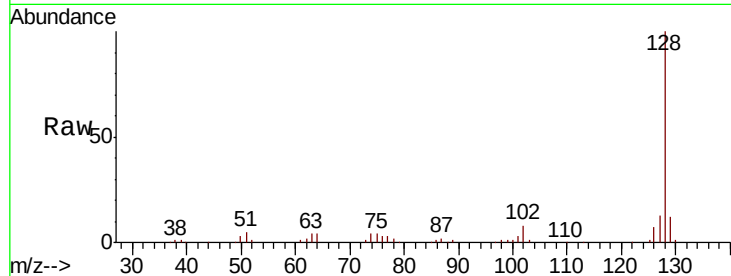
Tgt Ion:128 Resp: 107579

Ion Ratio Lower Upper

128 100

129 10.7 9.0 13.4

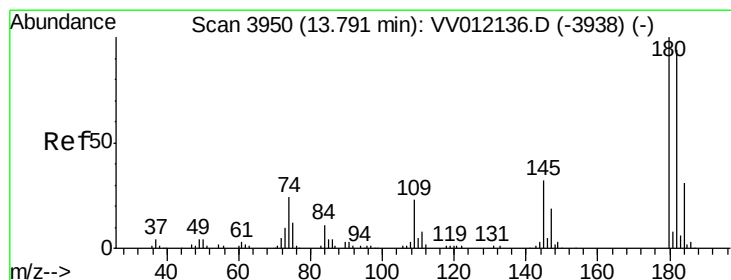
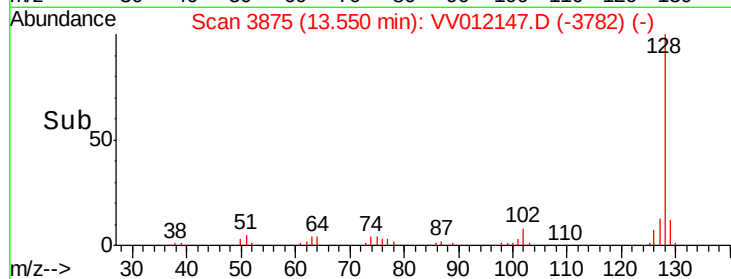
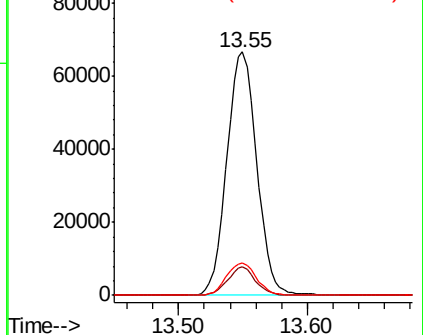
127 13.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.504 ug/L

RT: 13.79 min Scan# 3950

Delta R.T. 0.00 min

Lab File: VV012147.D

Acq: 09 Aug 2019 10:57

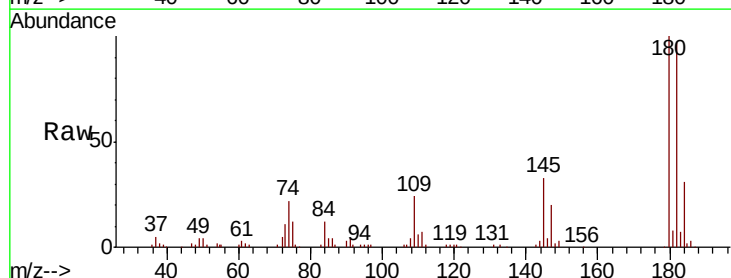
Tgt Ion:180 Resp: 67807

Ion Ratio Lower Upper

180 100

182 97.3 77.9 116.9

145 31.8 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

