

Data Path : Z:\VOASRV\HPCHEM1\MSVOA R\DATA\VR040919\
 Data File : VR026552.D
 Acq On : 10 Apr 2019 12:20
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25mL/MSVOA R/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

Quant Time: Apr 11 03:10:41 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_R\METHODS\SOMRTR040319WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Apr 11 03:05:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.46	114	618133	5.00	ug/L	0.00
28) Chlorobenzene-d5	11.28	117	511235	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.22	152	205435	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.15	65	176581	3.76	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.20%
7) Chloroethane-d5	2.63	69	164380	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	3.60	63	557000	4.58	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	91.60%
20) 2-Butanone-d5	6.59	46	201753	48.18	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.36%
24) Chloroform-d	7.20	84	407071	4.56	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.20%
26) 1,2-Dichloroethane-d4	7.89	65	166160	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.60%
32) Benzene-d6	7.85	84	746439	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.20%
36) 1,2-Dichloropropane-d6	8.89	67	194140	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.80%
41) Toluene-d8	9.97	98	717010	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
43) trans-1,3-Dichloropropene-	10.24	79	45711	4.07	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	81.40%
46) 2-Hexanone-d5	10.59	63	170504	56.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	113.30%
57) 1,1,2,2-Tetrachloroethane-	12.36	84	79357	4.81	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	96.20%
64) 1,2-Dichlorobenzene-d4	13.51	152	140272	4.51	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	286473	4.522	ug/L 100
3) Chloromethane	2.01	50	321251	4.808	ug/L 99
5) Vinyl chloride	2.16	62	328523	5.003	ug/L 99
6) Bromomethane	2.52	94	192682	5.019	ug/L 91
8) Chloroethane	2.66	64	190133	5.107	ug/L 97
9) Trichlorofluoromethane	2.93	101	504425	5.549	ug/L 95
10) 1,1,2-Trichloro-1,2,2-trif	3.68	101	252019	5.025	ug/L 98
12) 1,1-Dichloroethene	3.62	96	279400	5.097	ug/L 92
13) Acetone	3.69	43	223671	52.858	ug/L 97
14) Carbon disulfide	3.92	76	796350	5.005	ug/L 97
15) Methyl Acetate	4.19	43	54904	4.809	ug/L 96
16) Methylene chloride	4.40	84	230930	4.738	ug/L 92
17) Methyl tert-butyl Ether	4.89	73	248731	3.989	ug/L 99
18) trans-1,2-Dichloroethene	4.88	96	255432	4.938	ug/L 92
19) 1,1-Dichloroethane	5.69	63	451109	4.694	ug/L 99
21) 2-Butanone	6.68	43	276810	50.879	ug/L 99
22) cis-1,2-Dichloroethene	6.67	96	227503	5.288	ug/L # 90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

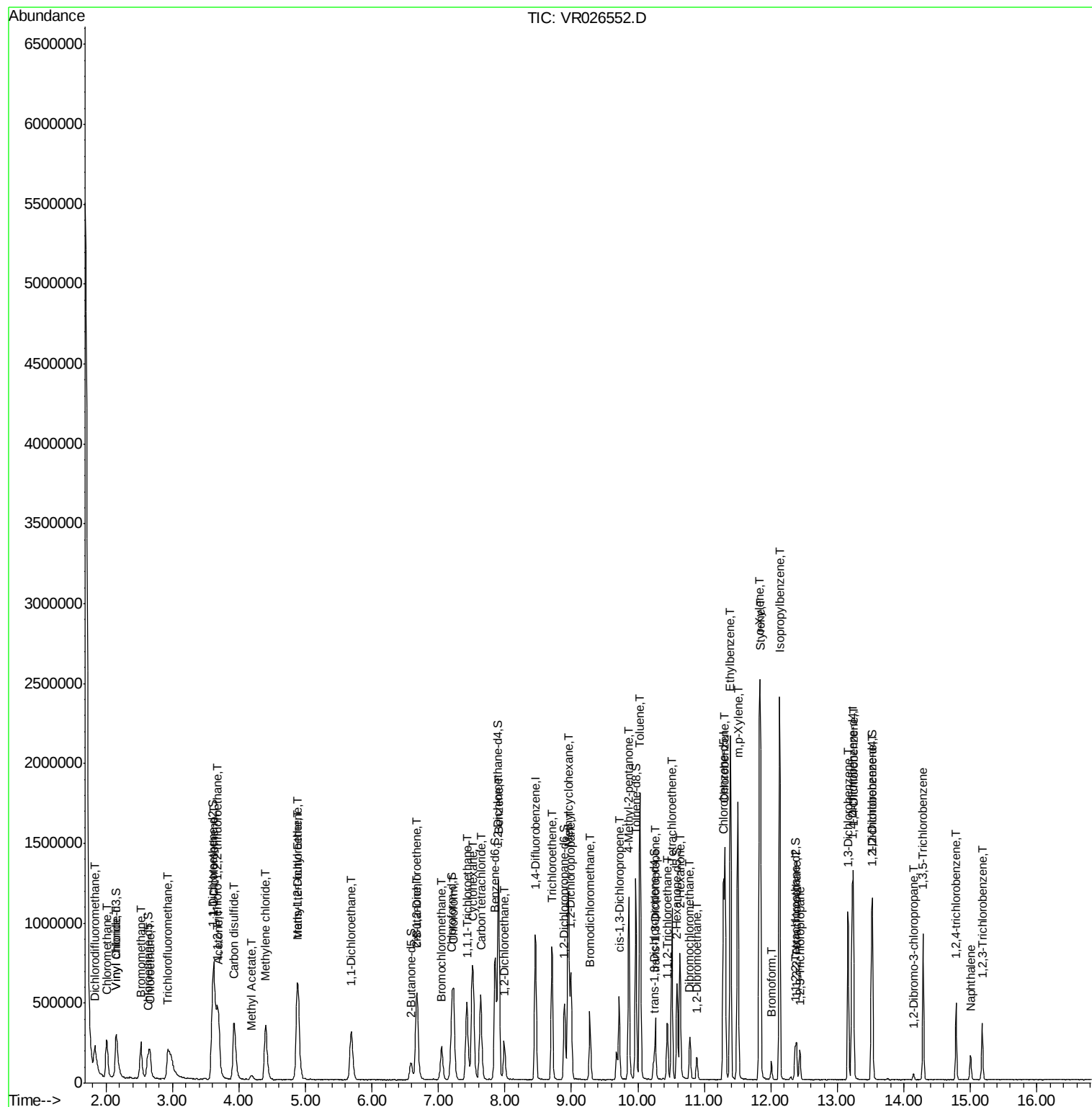
23) Bromochloromethane	7.05	128	66707	4.976	ug/L #	82
25) Chloroform	7.23	83	452205	4.918	ug/L	99
27) 1,2-Dichloroethane	7.99	62	220205	4.802	ug/L	99
29) 1,1,1-Trichloroethane	7.43	97	395412	4.686	ug/L	97
30) Cyclohexane	7.51	56	414379	5.285	ug/L	97
31) Carbon tetrachloride	7.63	117	391959	4.903	ug/L	99
33) Benzene	7.90	78	1009471	5.053	ug/L	100
34) Trichloroethene	8.71	95	262151	4.898	ug/L	97
35) Methylcyclohexane	8.95	83	415028	5.438	ug/L	95
37) 1,2-Dichloropropane	8.99	63	208796	4.769	ug/L	100
38) Bromodichloromethane	9.28	83	246355	4.869	ug/L	98
39) cis-1,3-Dichloropropene	9.72	75	242423	5.101	ug/L	96
40) 4-Methyl-2-pentanone	9.86	43	706264	55.050	ug/L	100
42) Toluene	10.03	91	1096716	5.356	ug/L	100
44) trans-1,3-Dichloropropene	10.26	75	163973	4.730	ug/L	96
45) 1,1,2-Trichloroethane	10.45	97	91914	5.190	ug/L	93
47) Tetrachloroethene	10.51	164	192051	5.043	ug/L	97
48) 2-Hexanone	10.63	43	476154	55.798	ug/L	99
49) Dibromochloromethane	10.79	129	111896	4.823	ug/L	91
50) 1,2-Dibromoethane	10.88	107	77005	5.055	ug/L #	93
51) Chlorobenzene	11.32	112	583697	5.080	ug/L	96
52) Ethylbenzene	11.39	91	1276886	5.413	ug/L	99
53) m,p-Xylene	11.50	106	467807	5.534	ug/L	93
54) o-Xylene	11.83	106	405363	5.457	ug/L	99
55) Styrene	11.84	104	646194	5.510	ug/L	100
56) Isopropylbenzene	12.13	105	1199865	5.691	ug/L	99
58) 1,1,1,2,2-Tetrachloroethane	12.39	83	84422	4.909	ug/L	95
59) 1,2,3-Trichloropropane	12.43	75	64686	4.903	ug/L	98
61) Bromoform	12.01	173	40480	4.416	ug/L	97
62) 1,3-Dichlorobenzene	13.16	146	326569	4.959	ug/L	98
63) 1,4-Dichlorobenzene	13.24	146	358746	4.853	ug/L	97
65) 1,2-Dichlorobenzene	13.53	146	272534	4.990	ug/L	98
66) 1,2-Dibromo-3-chloropropan	14.14	75	8894	4.236	ug/L #	84
67) 1,3,5-Trichlorobenzene	14.29	180	206378	4.797	ug/L	98
68) 1,2,4-trichlorobenzene	14.78	180	112087	4.688	ug/L	99
69) Naphthalene	15.00	128	98367	4.374	ug/L	99
70) 1,2,3-Trichlorobenzene	15.18	180	85540	5.162	ug/L	94

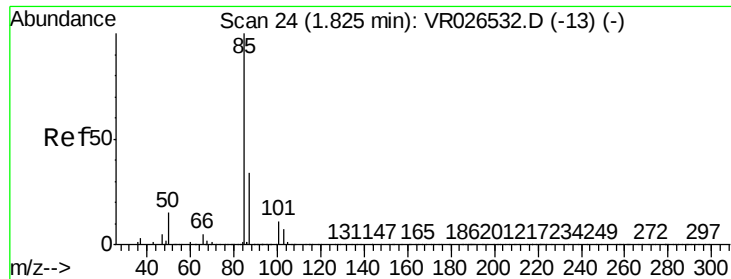
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.522 ug/L

RT: 1.83 min Scan# 25

Delta R.T. 0.01 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

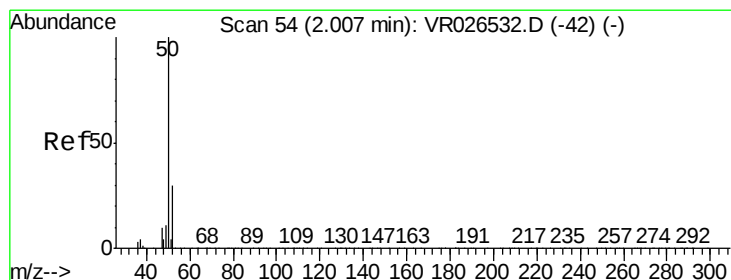
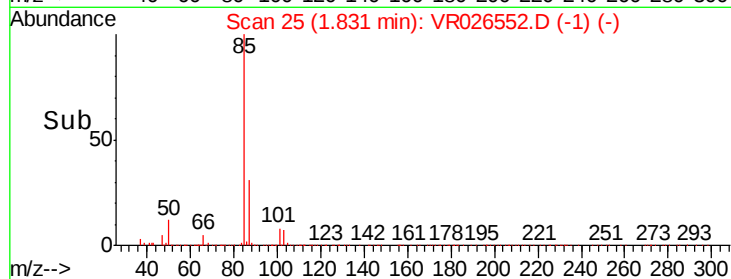
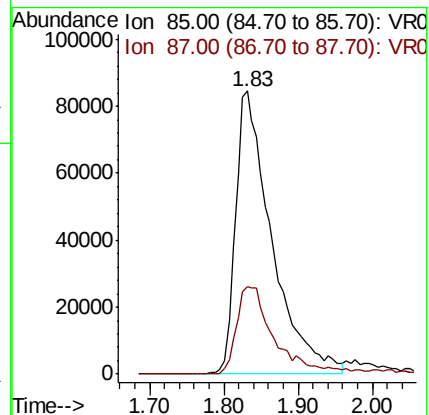
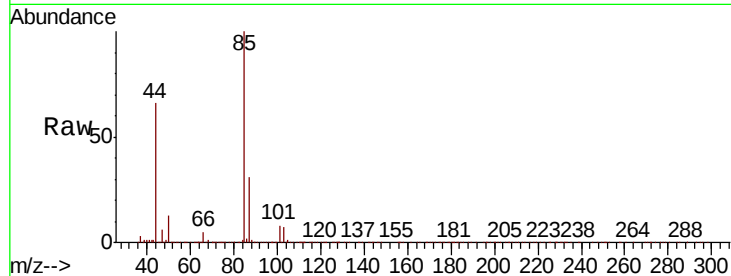
VSTD00568

Tot Ion: 85 Resp: 286473

Ion Ratio Lower Upper

85 100

87 32.1 25.5 38.3



#3

Chloromethane

Concen: 4.808 ug/L

RT: 2.01 min Scan# 54

Delta R.T. 0.00 min

Lab File: VR026552.D

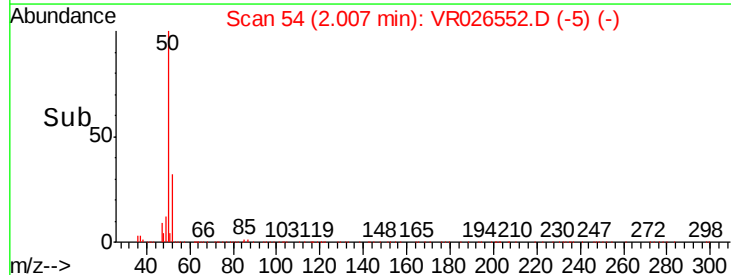
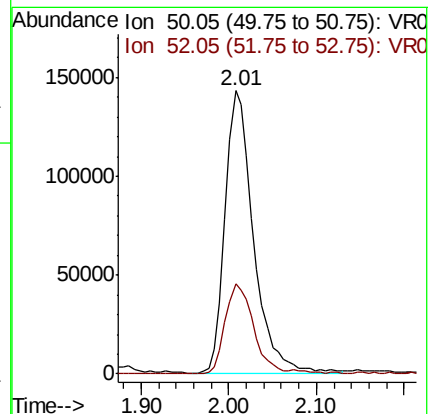
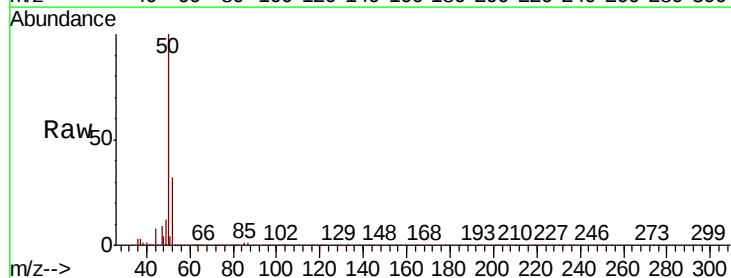
Acq: 10 Apr 2019 12:20

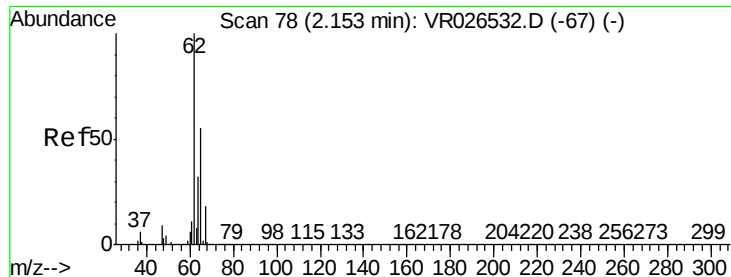
Tgt Ion: 50 Resp: 321251

Ion Ratio Lower Upper

50 100

52 31.8 22.5 41.9





#5

Vinyl chloride

Concen: 5.003 ug/L

RT: 2.16 min Scan# 79

Delta R.T. 0.01 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

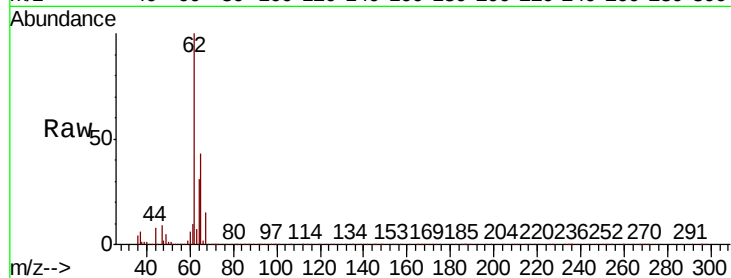
VSTD00568

Tot Ion: 62 Resp: 328523

Ion Ratio Lower Upper

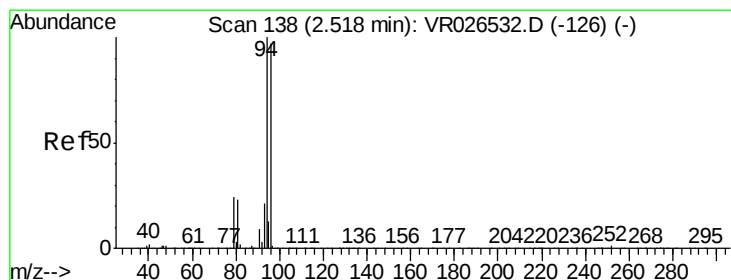
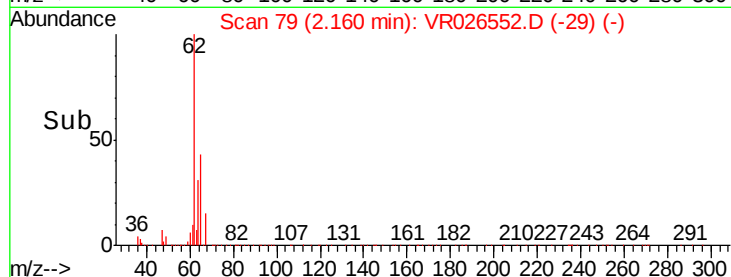
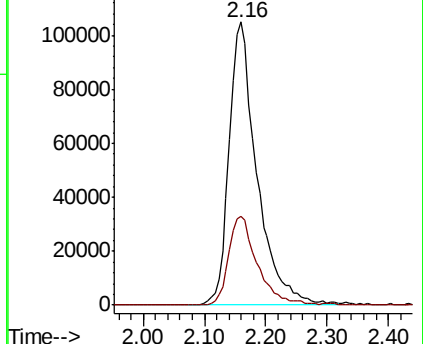
62 100

64 31.5 22.3 41.5



Abundance Ion 62.00 (61.70 to 62.70): VR0

Ion 64.10 (63.80 to 64.80): VR0



#6

Bromomethane

Concen: 5.019 ug/L

RT: 2.52 min Scan# 139

Delta R.T. 0.01 min

Lab File: VR026552.D

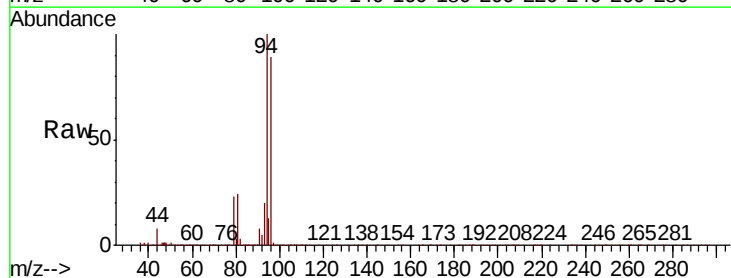
Acq: 10 Apr 2019 12:20

Tgt Ion: 94 Resp: 192682

Ion Ratio Lower Upper

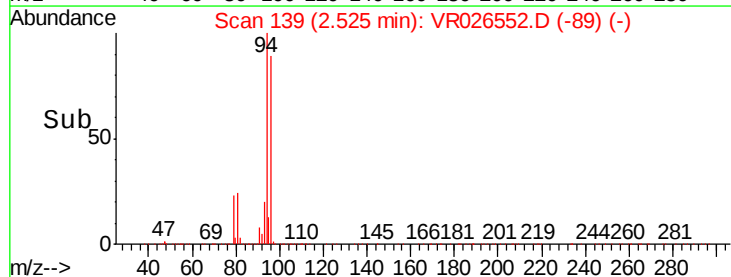
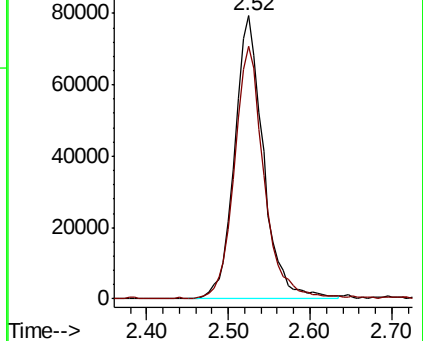
94 100

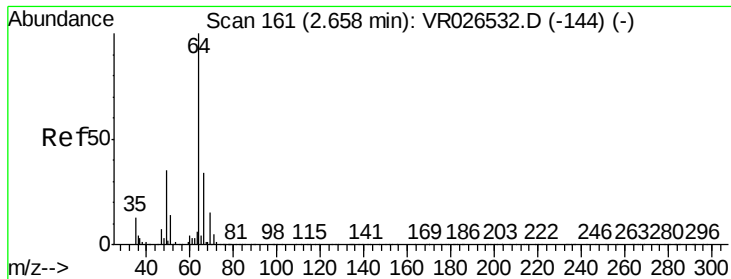
96 89.4 69.1 128.3



Abundance Ion 94.00 (93.70 to 94.70): VR0

Ion 96.00 (95.70 to 96.70): VR0





#8

Chloroethane

Concen: 5.107 ug/L

RT: 2.66 min Scan# 161

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

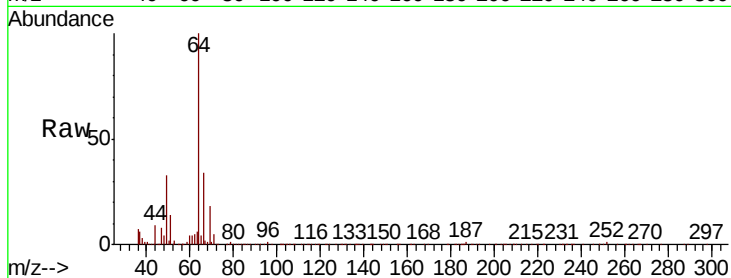
VSTD00568

Tot Ion: 64 Resp: 190133

Ion Ratio Lower Upper

64 100

66 33.5 22.4 41.6



Abundance Ion 64.10 (63.80 to 64.80): VR0

Ion 66.05 (65.75 to 66.75): VR0

2.66

80000

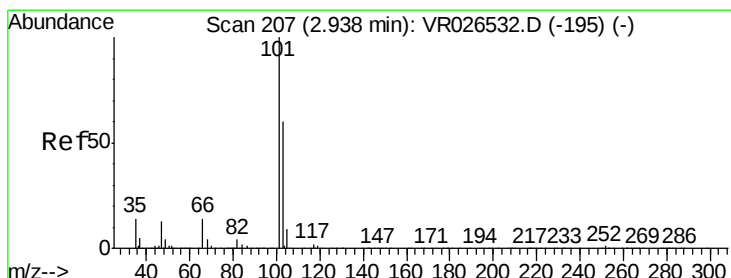
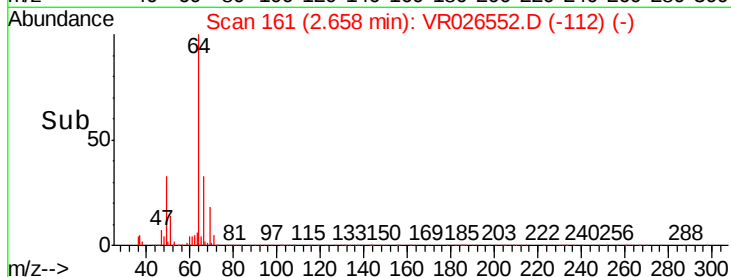
60000

40000

20000

0

Time-->



#9

Trichlorofluoromethane

Concen: 5.549 ug/L

RT: 2.93 min Scan# 206

Delta R.T. -0.01 min

Lab File: VR026552.D

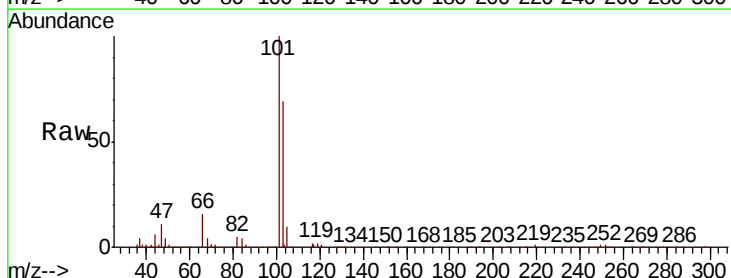
Acq: 10 Apr 2019 12:20

Tgt Ion:101 Resp: 504425

Ion Ratio Lower Upper

101 100

103 63.9 48.2 72.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

2.93

80000

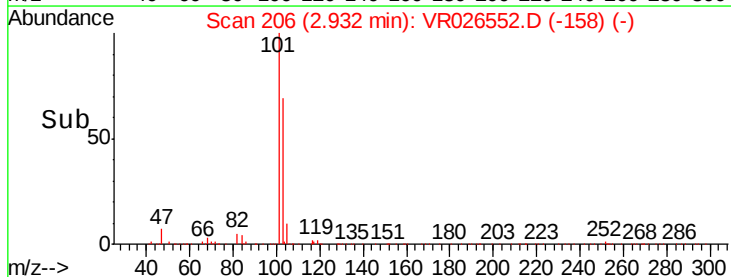
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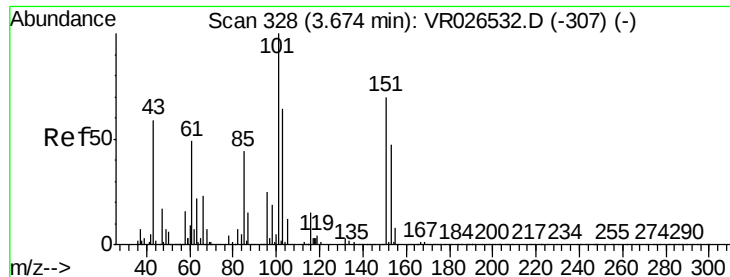
40000

20000

0

Time-->





#10

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

Concen: 5.025 ug/L

RT: 3.68 min Scan# 329

Delta R.T. 0.01 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

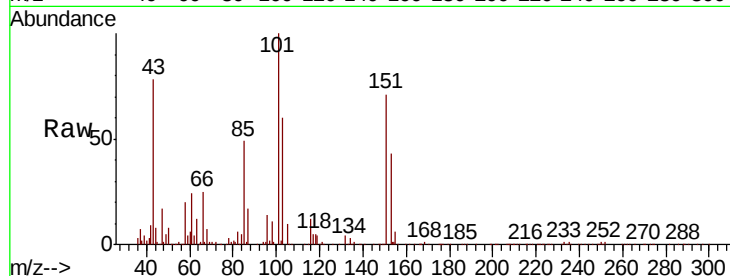
Tot Ion:101 Resp: 252019

Ion Ratio Lower Upper

101 100

85 50.9 39.2 58.8

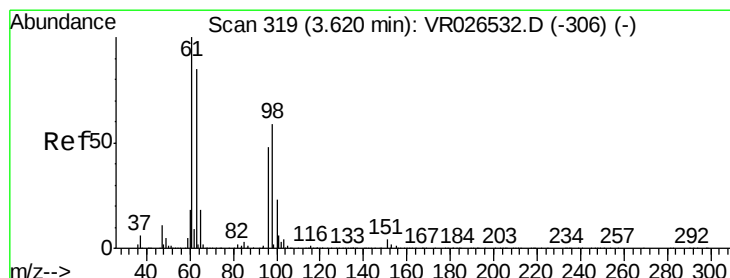
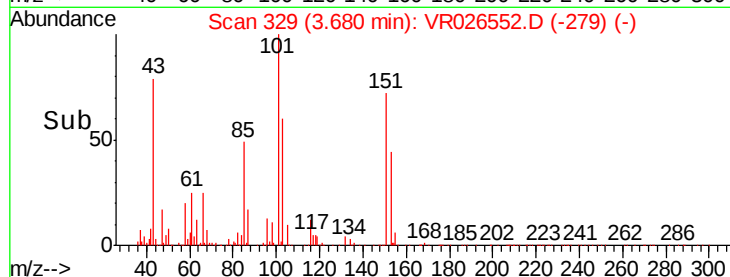
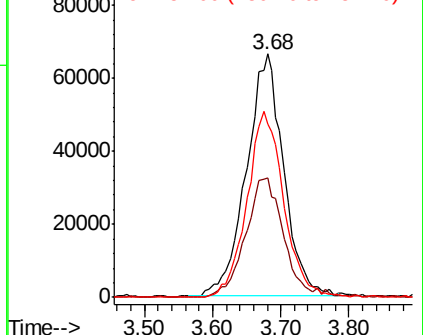
151 76.1 59.7 89.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VR0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.097 ug/L

RT: 3.62 min Scan# 319

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

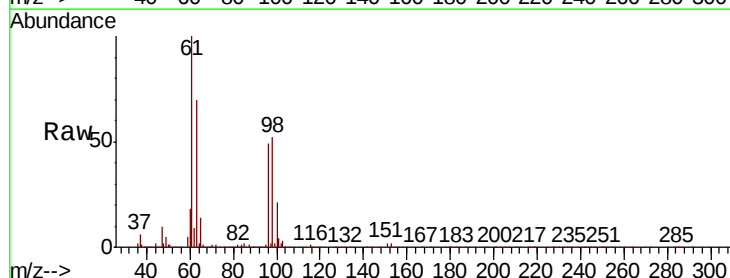
Tgt Ion: 96 Resp: 279400

Ion Ratio Lower Upper

96 100

61 205.9 142.7 264.9

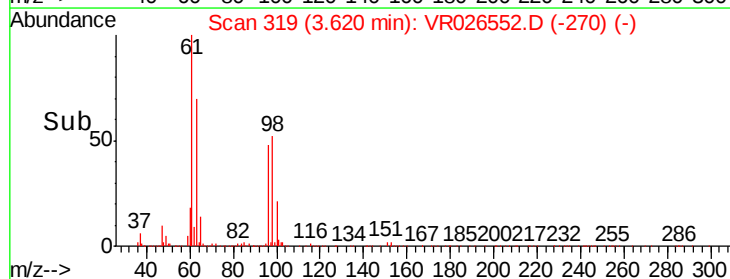
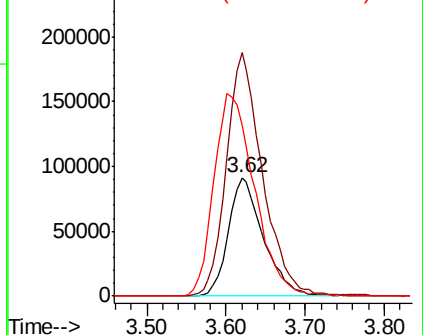
63 144.5 116.9 217.1

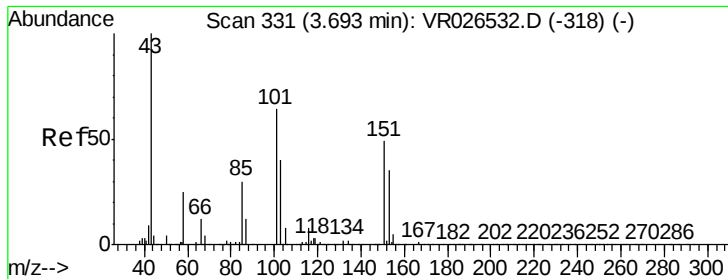


Abundance Ion 96.00 (95.70 to 96.70): VR0

Ion 61.05 (60.75 to 61.75): VR0

Ion 63.00 (62.70 to 63.70): VR0





#13

Acetone

Concen: 52.858 ug/L

RT: 3.69 min Scan# 331

Delta R.T. 0.00 min

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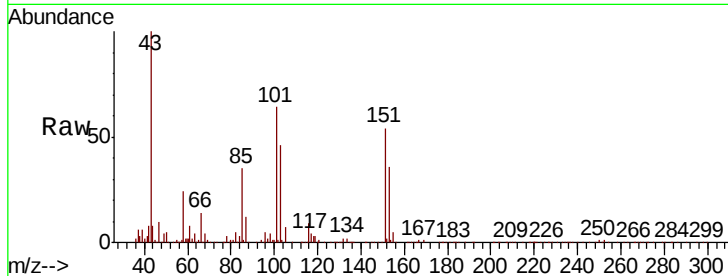
VSTD00568

Tot Ion: 43 Resp: 223671

Ion Ratio Lower Upper

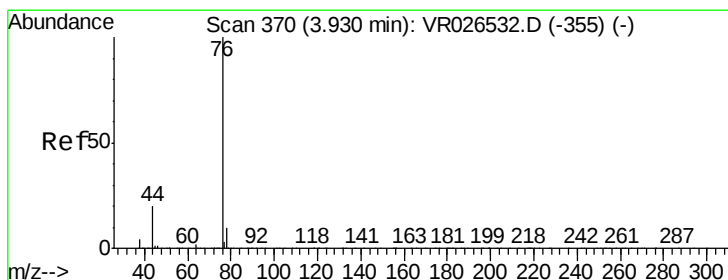
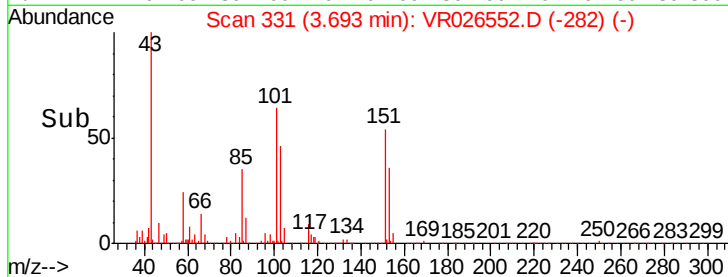
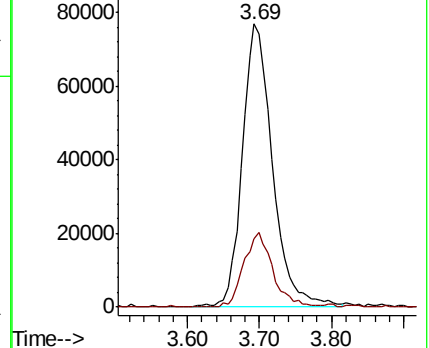
43 100

58 25.6 0.0 53.8



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0



#14

Carbon disulfide

Concen: 5.005 ug/L

RT: 3.92 min Scan# 369

Delta R.T. -0.01 min

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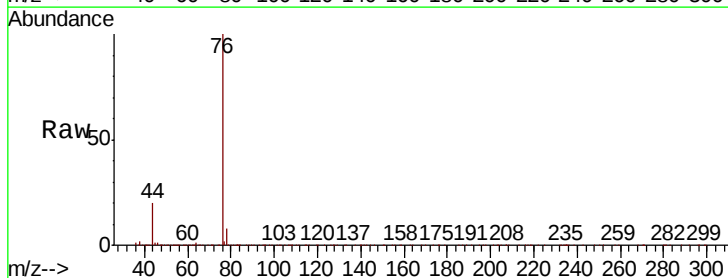
Acq: 10 Apr 2019 12:20

Tgt Ion: 76 Resp: 796350

Ion Ratio Lower Upper

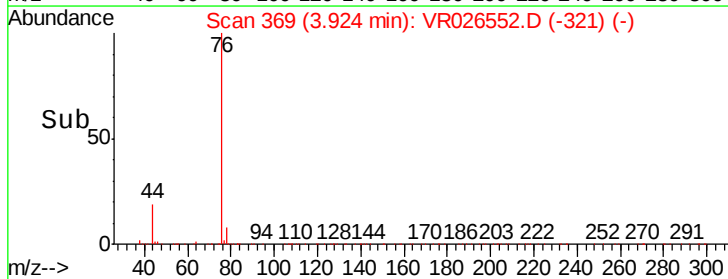
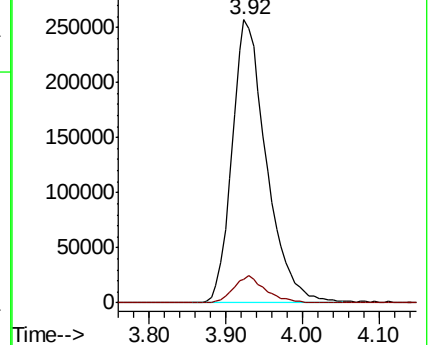
76 100

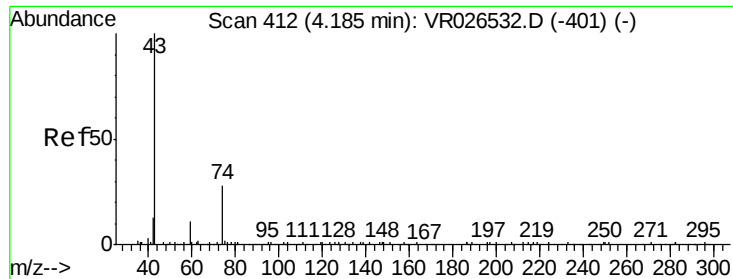
78 8.3 7.7 11.5



Abundance Ion 76.05 (75.75 to 76.75): VR0

Ion 78.00 (77.70 to 78.70): VR0

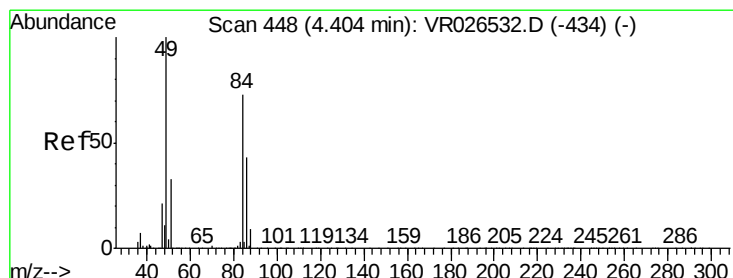
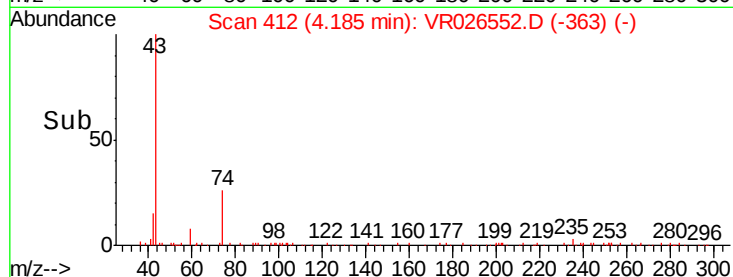
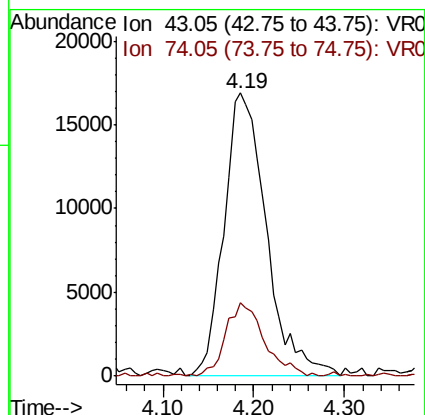
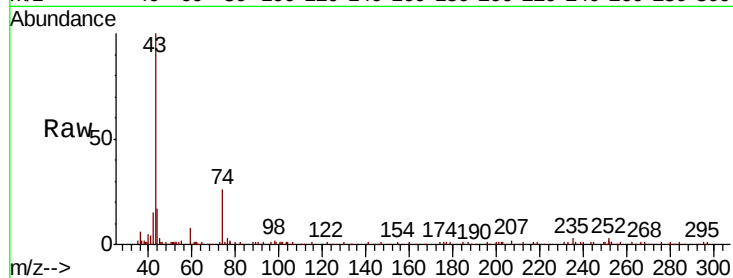




#15
Methyl Acetate
Concen: 4.809 ug/L
RT: 4.19 min Scan# 412
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

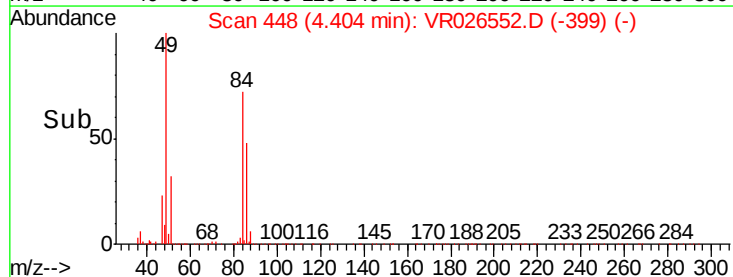
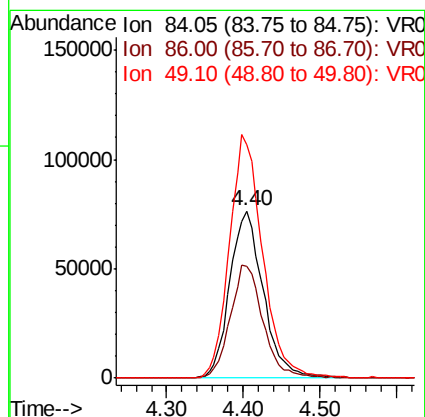
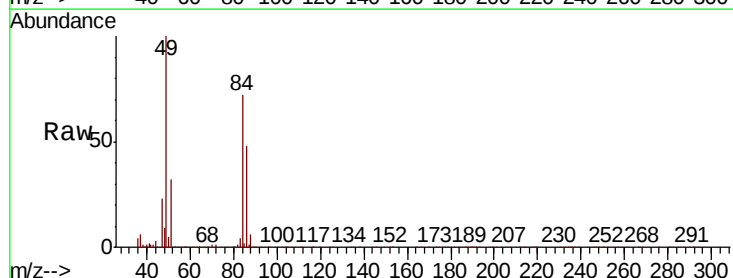
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

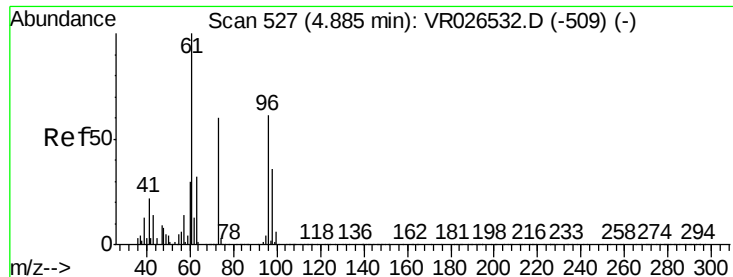
Tot Ion: 43 Resp: 54904
Ion Ratio Lower Upper
43 100
74 23.6 17.5 26.3



#16
Methylene chloride
Concen: 4.738 ug/L
RT: 4.40 min Scan# 448
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion: 84 Resp: 230930
Ion Ratio Lower Upper
84 100
86 67.1 45.6 84.6
49 139.5 106.5 197.9

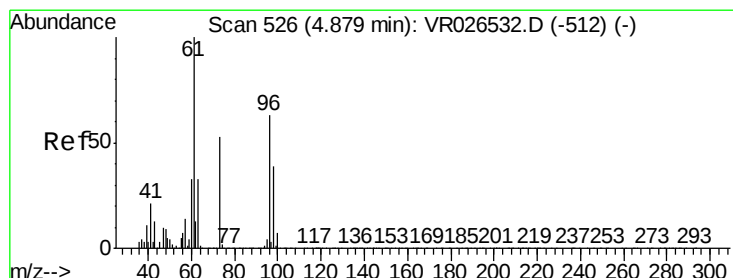
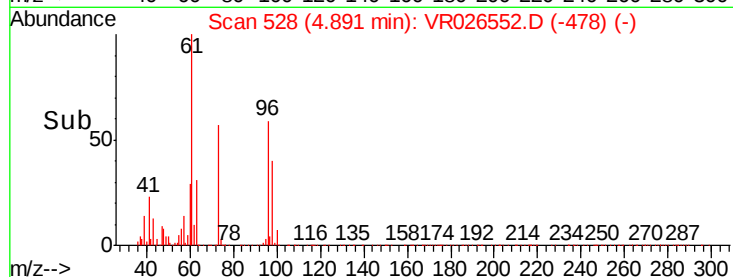
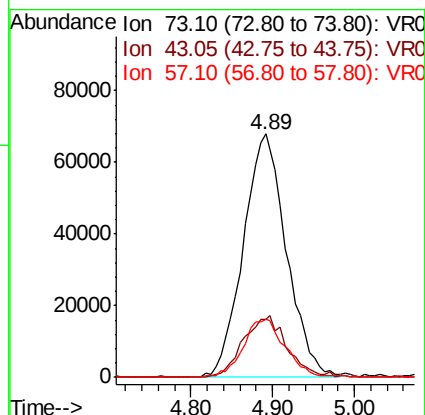
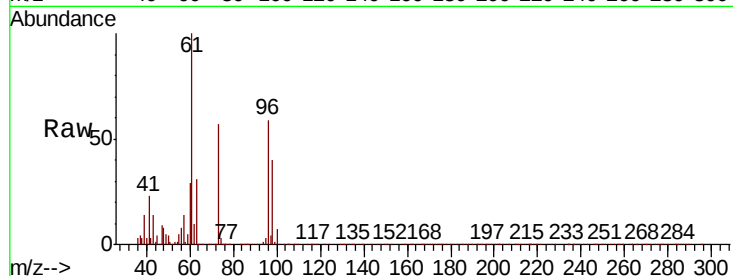




#17
Methvl tert-butvl Ether
Concen: 3.989 ug/L
RT: 4.89 min Scan# 528
Delta R.T. 0.01 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

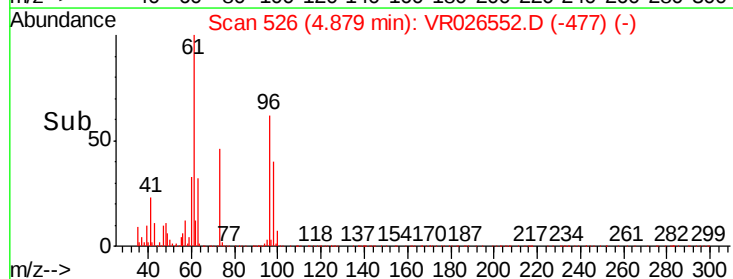
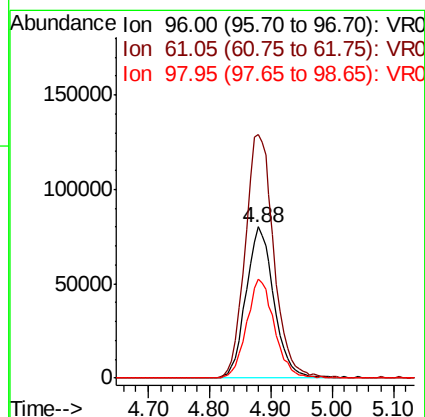
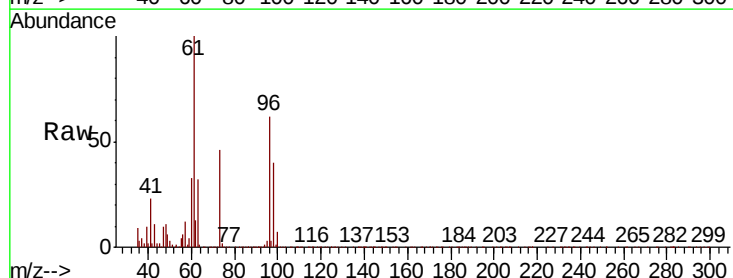
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

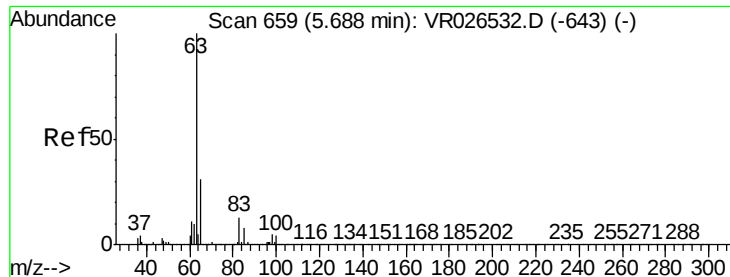
Tot Ion: 73 Resp: 248731
Ion Ratio Lower Upper
73 100
43 24.9 19.8 29.8
57 22.8 18.9 28.3



#18
trans-1,2-Dichloroethene
Concen: 4.938 ug/L
RT: 4.88 min Scan# 526
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion: 96 Resp: 255432
Ion Ratio Lower Upper
96 100
61 160.9 122.9 228.3
98 65.0 45.2 84.0

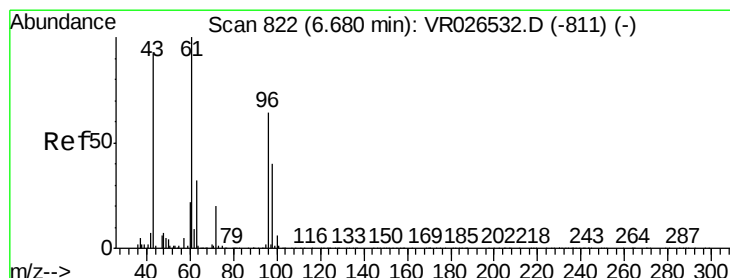
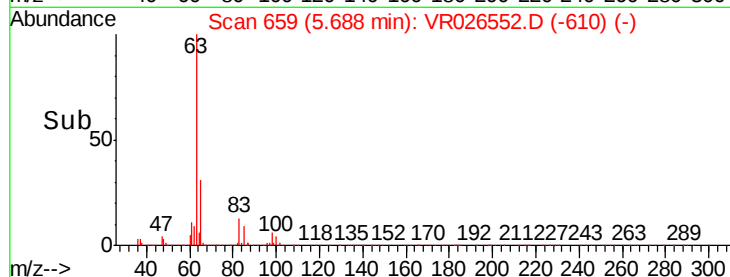
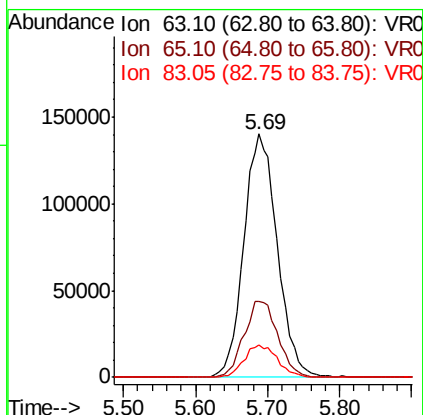
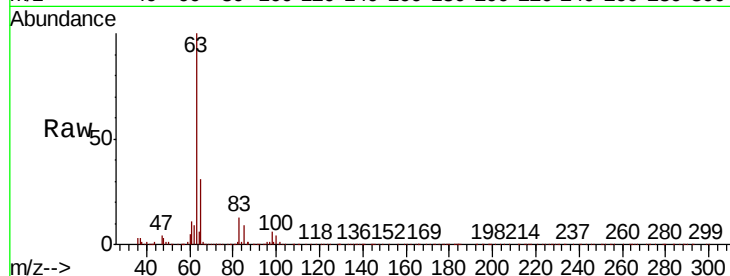




#19
 1,1-Dichloroethane
 Concen: 4.694 ug/L
 RT: 5.69 min Scan# 659
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

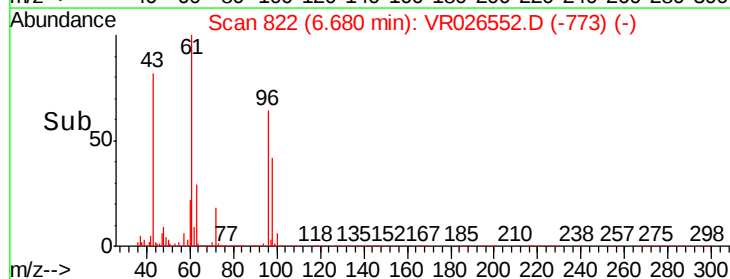
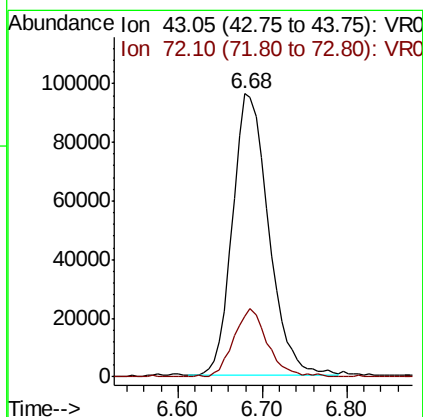
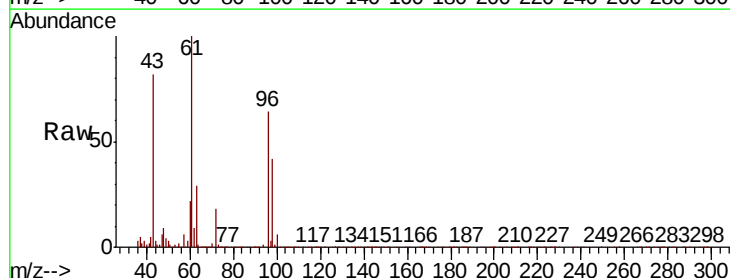
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

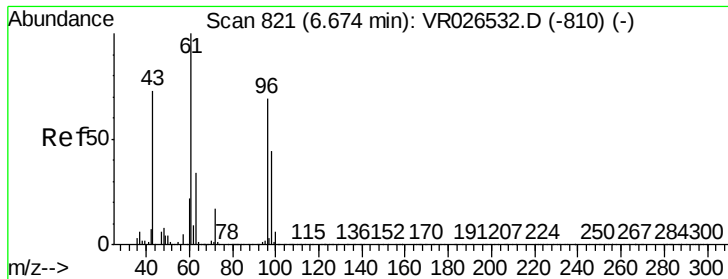
Tot Ion:	63	Resp:	451109
Ion	Ratio	Lower	Upper
63	100		
65	31.4	22.0	40.8
83	13.5	8.2	15.2



#21
 2-Butanone
 Concen: 50.879 ug/L
 RT: 6.68 min Scan# 822
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Tgt Ion:	43	Resp:	276810
Ion	Ratio	Lower	Upper
43	100		
72	22.8	11.1	33.3



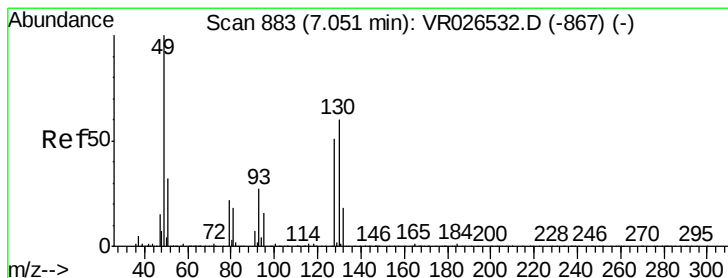
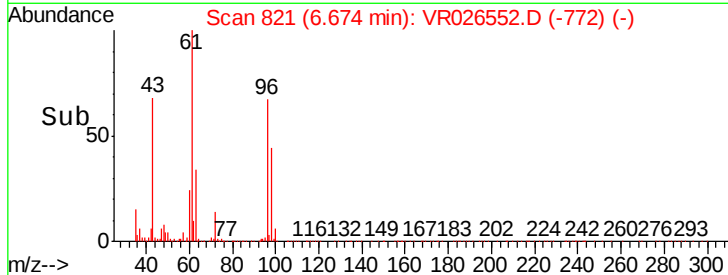
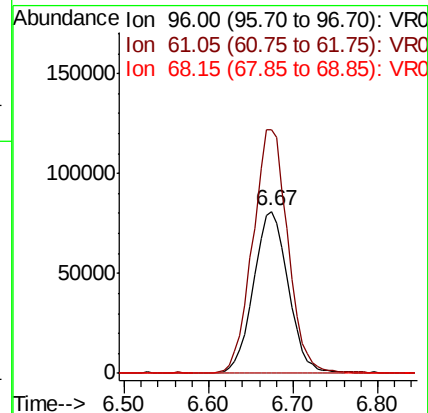
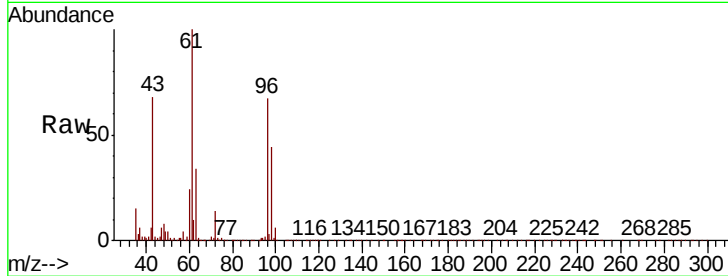


#22

cis-1,2-Dichloroethene
Concen: 5.288 ug/L
RT: 6.67 min Scan# 821
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

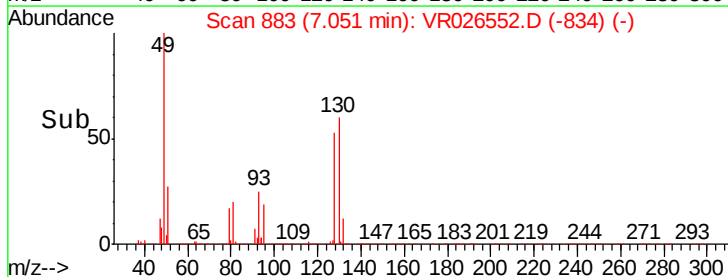
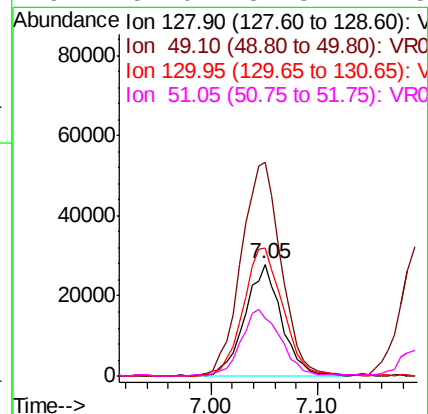
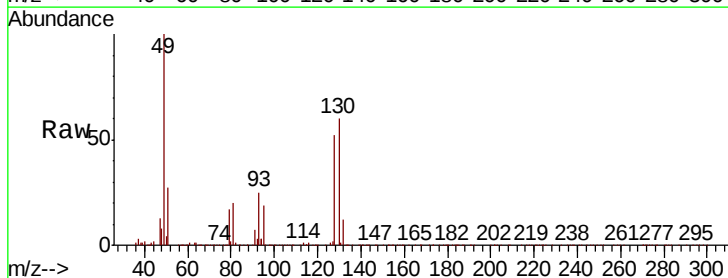
Tot Ion	Ratio	Lower	Upper
96	100		
61	150.2	115.0	213.6
68	0.3	0.0	0.0#

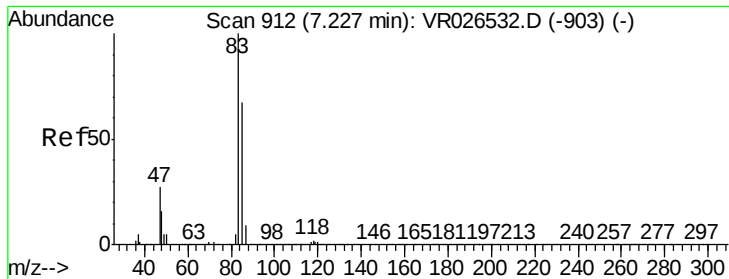


#23

Bromochloromethane
Concen: 4.976 ug/L
RT: 7.05 min Scan# 883
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion	Ratio	Lower	Upper
128	100		
49	190.8	158.3	293.9
130	113.9	90.0	167.2
51	51.0	51.8	77.8#

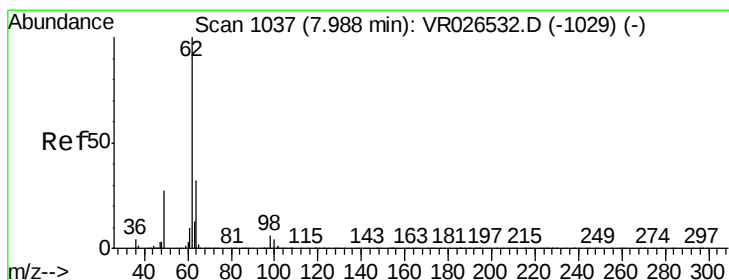
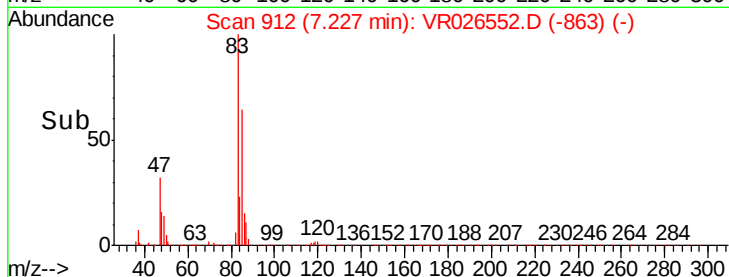
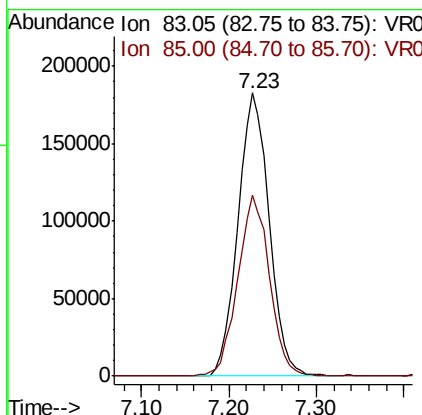
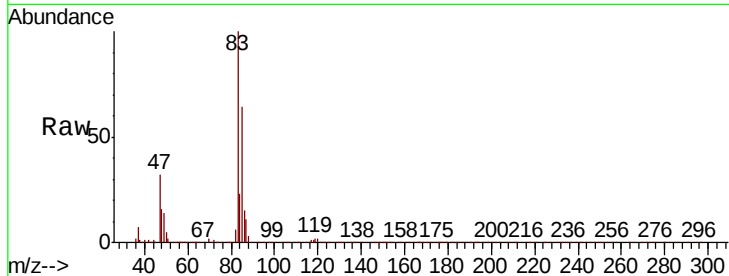




#25
Chloroform
Concen: 4.918 ug/L
RT: 7.23 min Scan# 912
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

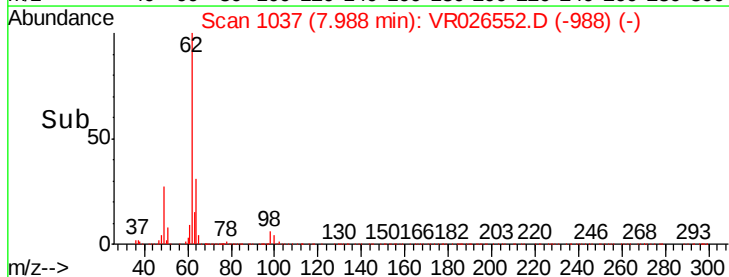
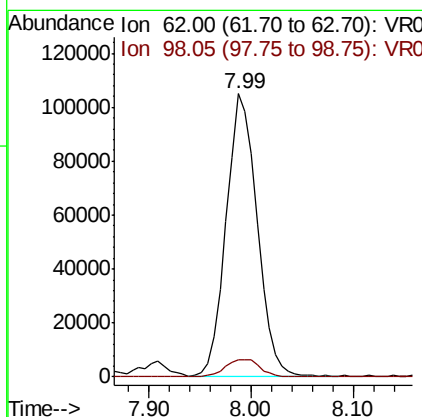
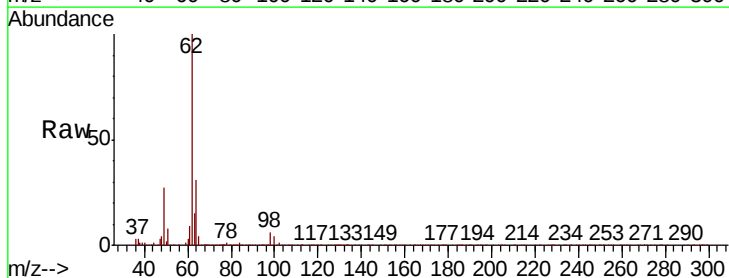
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

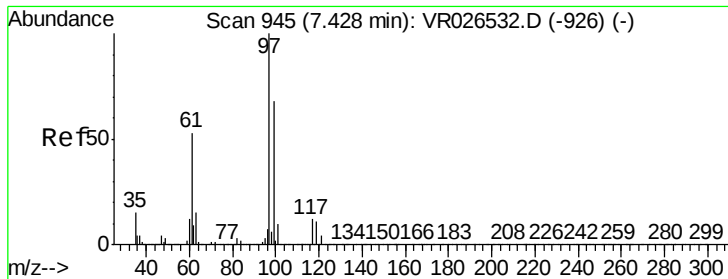
Tot Ion: 83 Resp: 452205
Ion Ratio Lower Upper
83 100
85 64.1 44.2 82.0



#27
1,2-Dichloroethane
Concen: 4.802 ug/L
RT: 7.99 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion: 62 Resp: 220205
Ion Ratio Lower Upper
62 100
98 6.3 4.8 7.2





#29

1,1,1-Trichloroethane

Concen: 4.686 ug/L

RT: 7.43 min Scan# 945

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

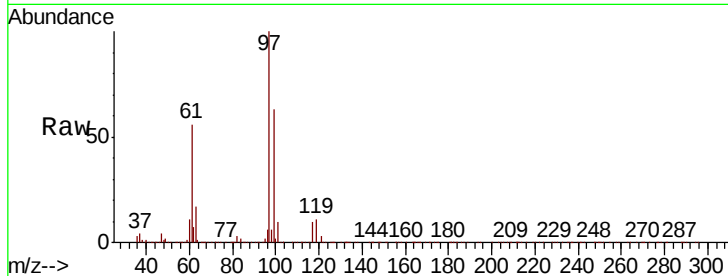
Tot Ion: 97 Resp: 395412

Ion Ratio Lower Upper

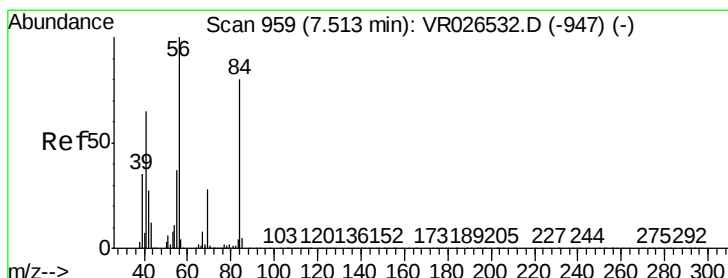
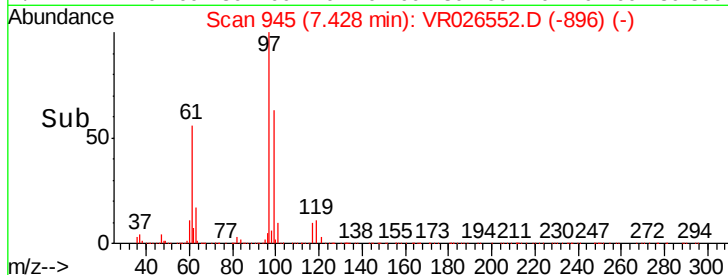
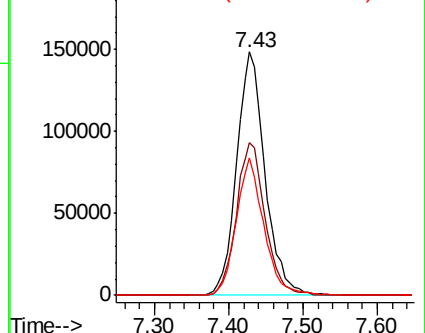
97 100

99 63.5 49.6 74.4

61 54.8 41.8 62.6



Abundance Ion 96.95 (96.65 to 97.65): VR0
Ion 99.05 (98.75 to 99.75): VR0
Ion 61.05 (60.75 to 61.75): VR0



#30

Cyclohexane

Concen: 5.285 ug/L

RT: 7.51 min Scan# 959

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

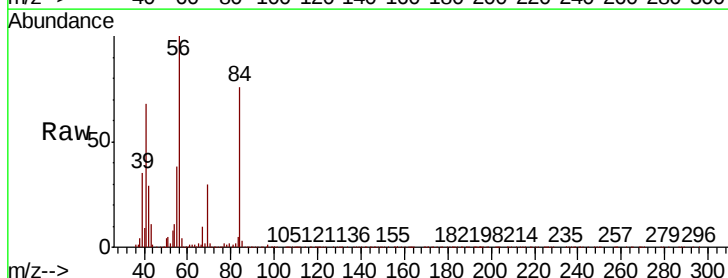
Tgt Ion: 56 Resp: 414379

Ion Ratio Lower Upper

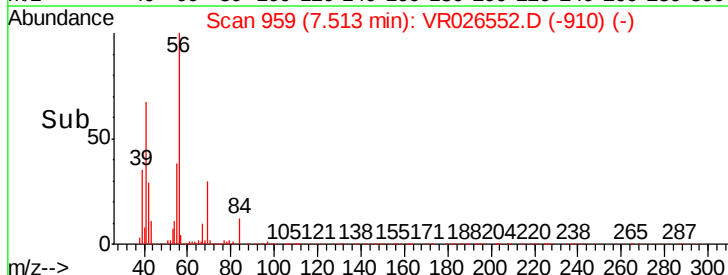
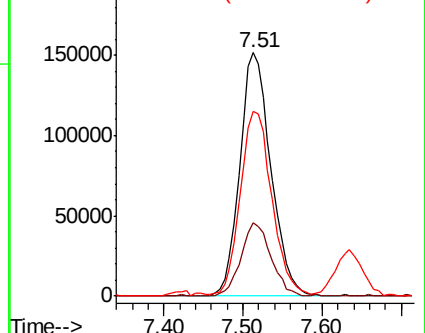
56 100

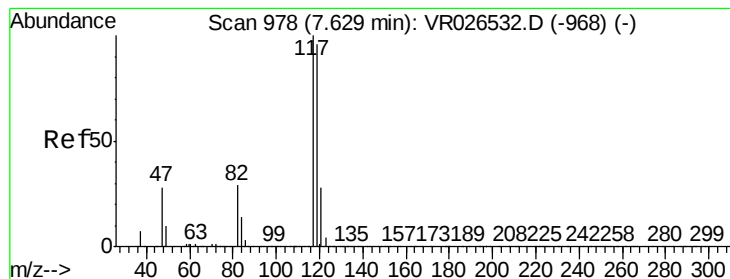
69 29.2 22.6 33.8

84 77.2 59.6 89.4



Abundance Ion 56.10 (55.80 to 56.80): VR0
Ion 69.15 (68.85 to 69.85): VR0
Ion 84.15 (83.85 to 84.85): VR0





#31

Carbon tetrachloride

Concen: 4.903 ug/L

RT: 7.63 min Scan# 979

Delta R.T. 0.01 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

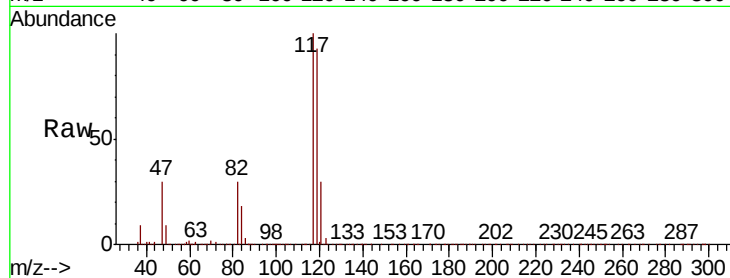
VSTD00568

Tot Ion:117 Resp: 391959

Ion Ratio Lower Upper

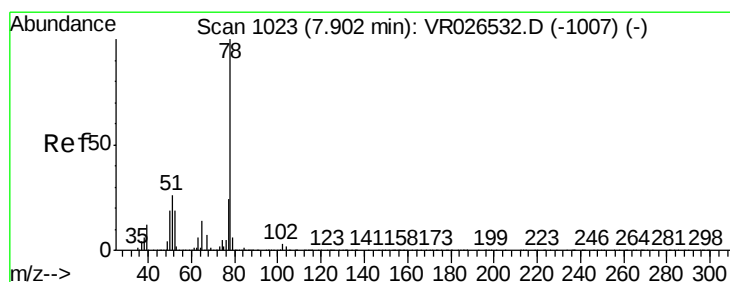
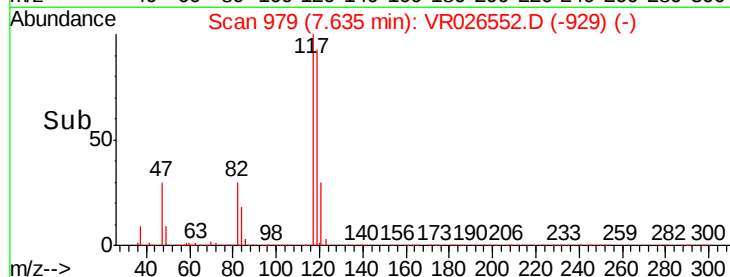
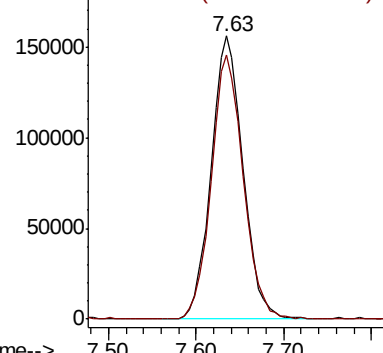
117 100

119 93.9 75.9 113.9



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 5.053 ug/L

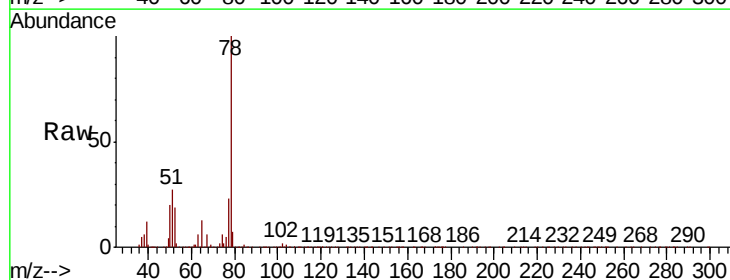
RT: 7.90 min Scan# 1023

Delta R.T. 0.00 min

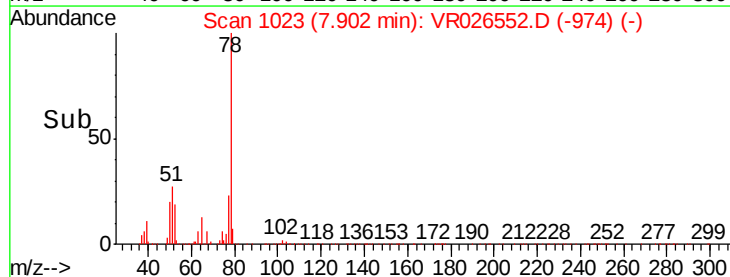
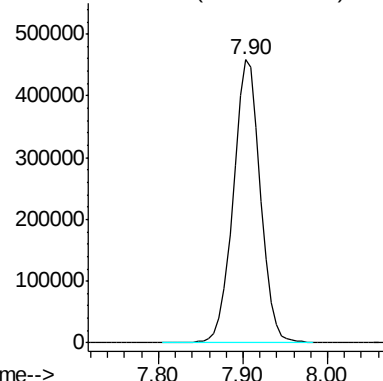
Lab File: VR026552.D

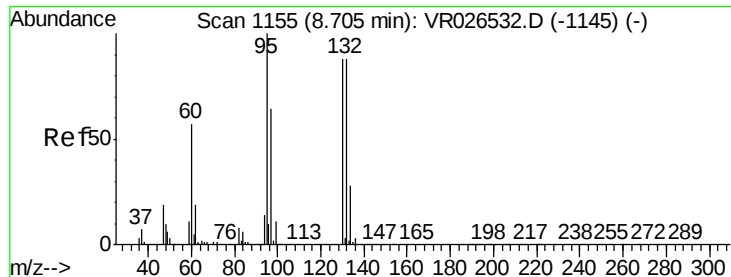
Acq: 10 Apr 2019 12:20

Tgt Ion: 78 Resp: 1009471



Abundance Ion 78.10 (77.80 to 78.80): VR0

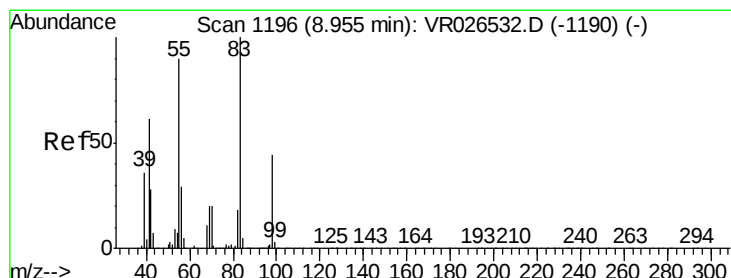
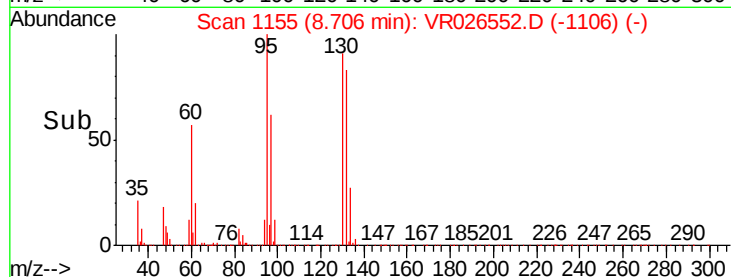
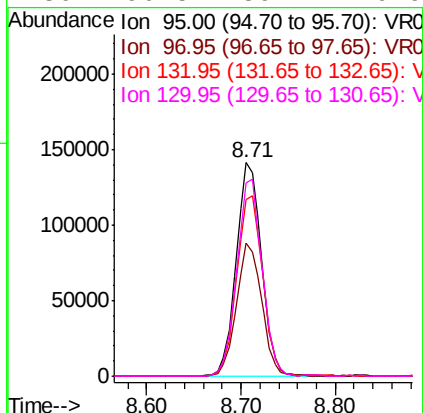
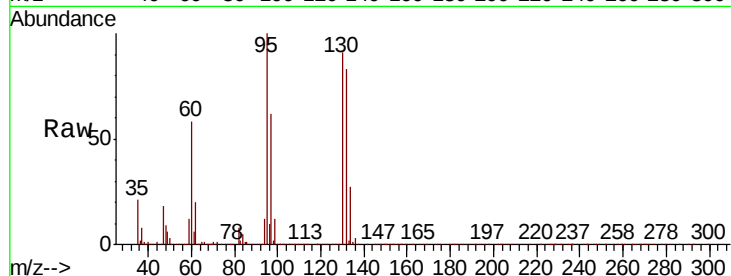




#34
 Trichloroethene
 Concen: 4.898 ug/L
 RT: 8.71 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

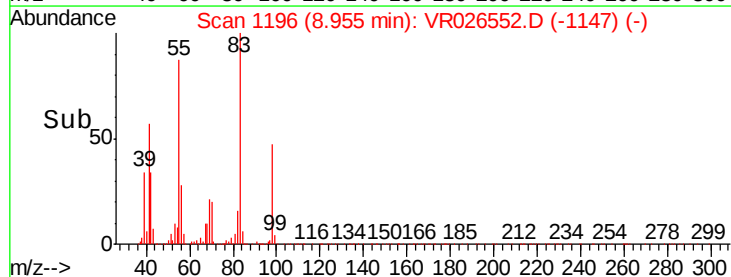
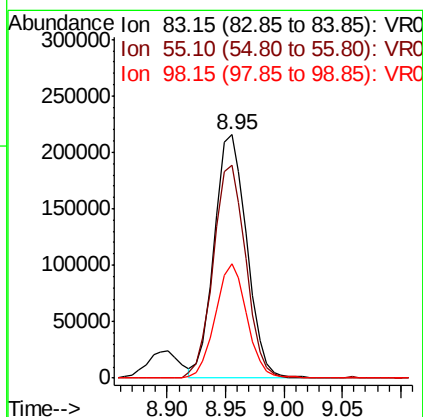
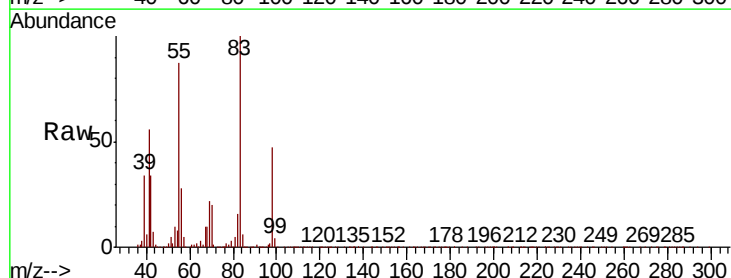
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

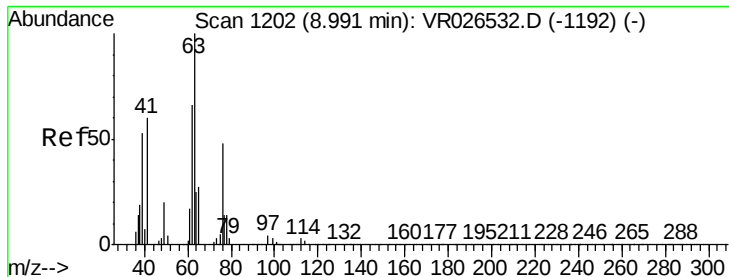
Tot Ion:	95	Resp:	262151
Ion	Ratio	Lower	Upper
95	100		
97	62.1	43.8	81.3
132	82.8	57.2	106.2
130	90.5	59.7	110.9



#35
 Methylcyclohexane
 Concen: 5.438 ug/L
 RT: 8.95 min Scan# 1196
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Tgt Ion:	83	Resp:	415028
Ion	Ratio	Lower	Upper
83	100		
55	87.2	73.8	110.6
98	46.2	34.6	51.8





#37

1,2-Dichloropropane

Concen: 4.769 ug/L

RT: 8.99 min Scan# 1202

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

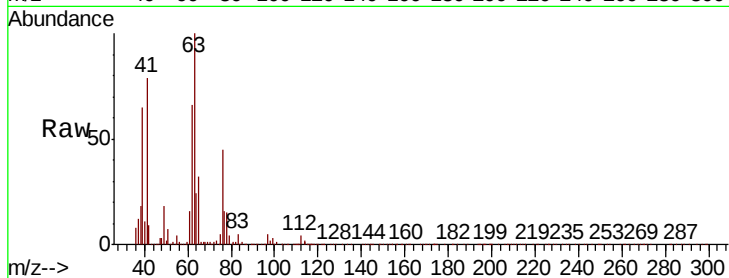
VSTD00568

Tot Ion: 63 Resp: 208796

Ion Ratio Lower Upper

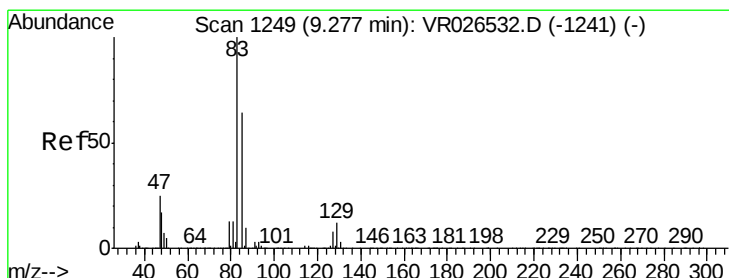
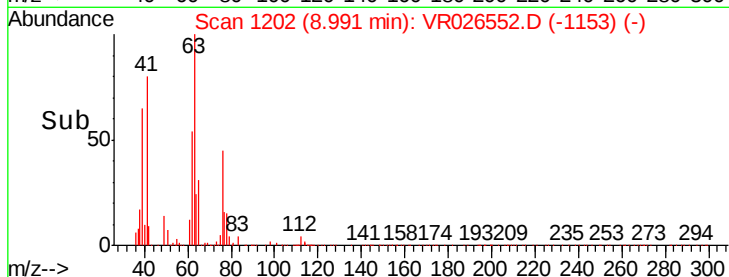
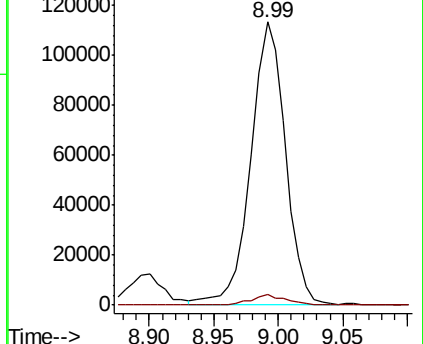
63 100

112 3.6 2.8 4.2



Abundance Ion 63.10 (62.80 to 63.80): VR0

Ion 112.10 (111.80 to 112.80): V



#38

Bromodichloromethane

Concen: 4.869 ug/L

RT: 9.28 min Scan# 1249

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

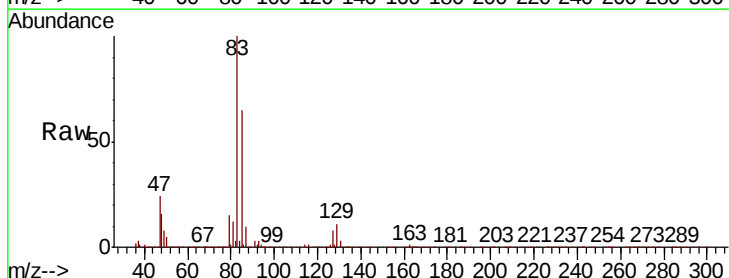
Tgt Ion: 83 Resp: 246355

Ion Ratio Lower Upper

83 100

85 65.4 46.6 86.6

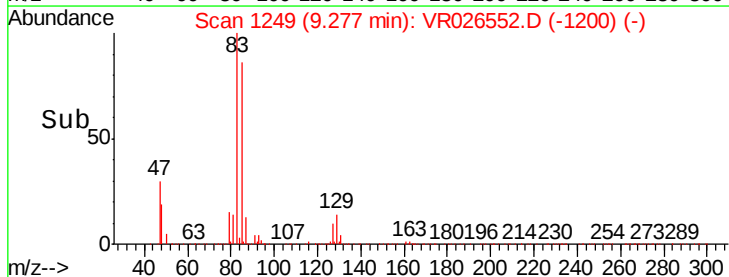
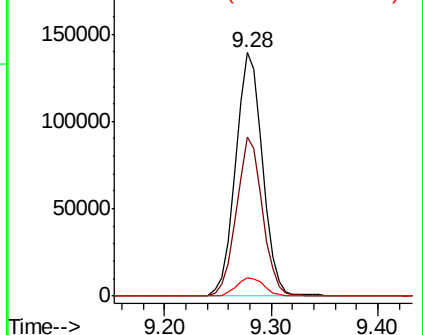
127 7.7 5.6 8.4

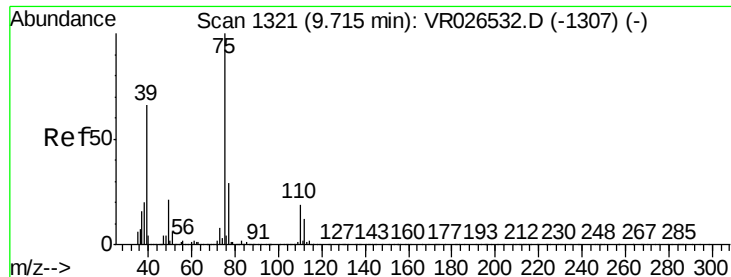


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 126.90 (126.60 to 127.60): V





#39

cis-1,3-Dichloropropene

Concen: 5.101 ug/L

RT: 9.72 min Scan# 1321

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

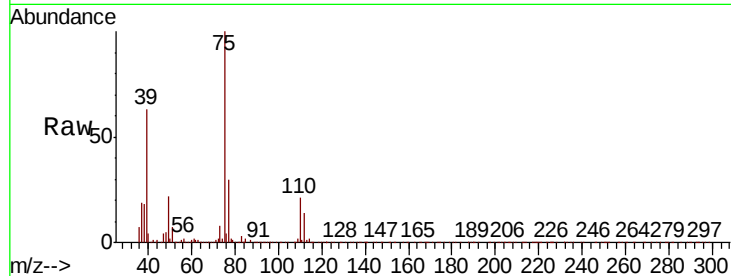
VSTD00568

Tot Ion: 75 Resp: 242423

Ion Ratio Lower Upper

75 100

77 29.9 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VR0

Ion 77.05 (76.75 to 77.75): VR0

9.72

150000

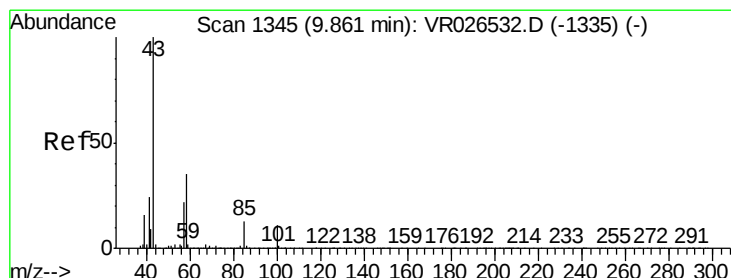
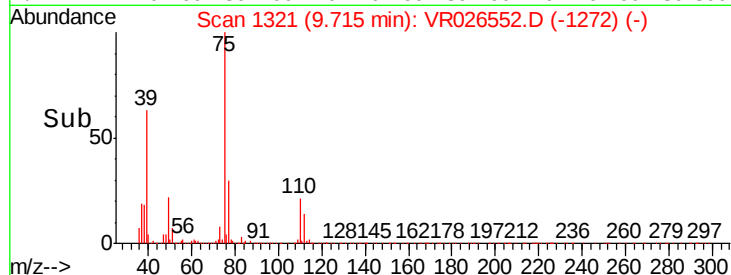
100000

50000

0

9.60 9.70 9.80

Time-->



#40

4-Methyl-2-pentanone

Concen: 55.050 ug/L

RT: 9.86 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

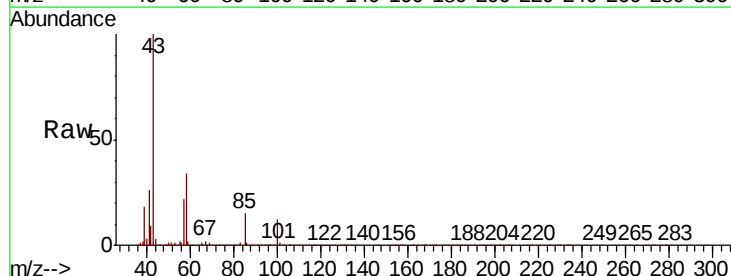
Tgt Ion: 43 Resp: 706264

Ion Ratio Lower Upper

43 100

58 33.9 27.0 40.4

100 11.4 8.9 13.3



Abundance Ion 43.05 (42.75 to 43.75): VR0

Ion 58.05 (57.75 to 58.75): VR0

Ion 100.15 (99.85 to 100.85): VR0

600000

500000

400000

300000

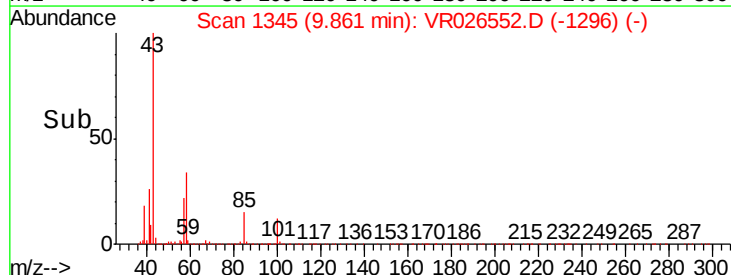
200000

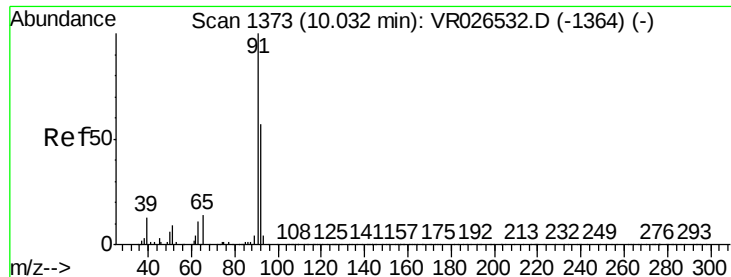
100000

0

9.80 9.90

Time-->





#42

Toluene

Concen: 5.356 ug/L

RT: 10.03 min Scan# 1373

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

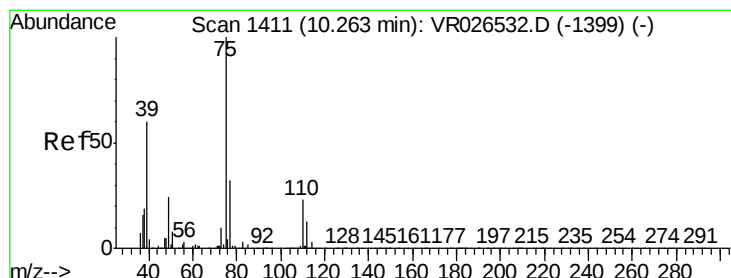
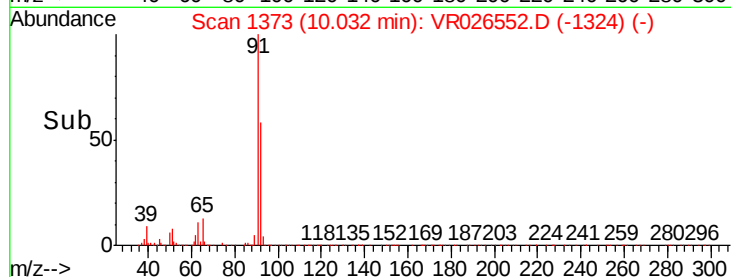
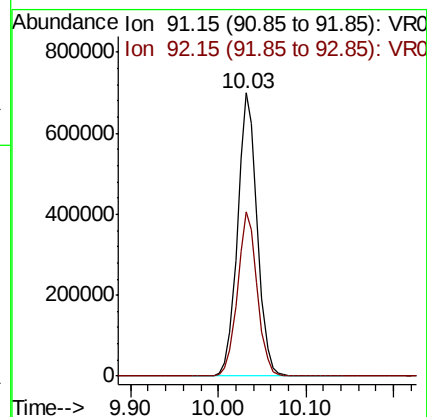
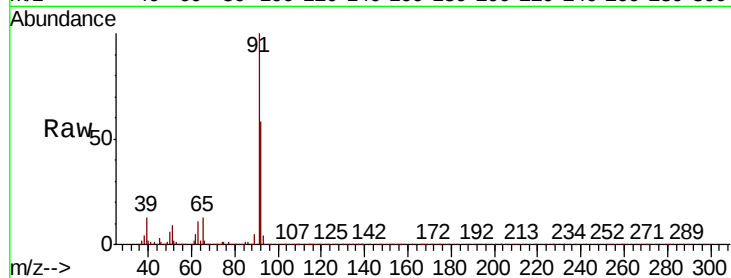
VSTD00568

Tot Ion: 91 Resp: 1096716

Ion Ratio Lower Upper

91 100

92 58.1 40.9 75.9



#44

trans-1,3-Dichloropropene

Concen: 4.730 ug/L

RT: 10.26 min Scan# 1411

Delta R.T. 0.00 min

Lab File: VR026552.D

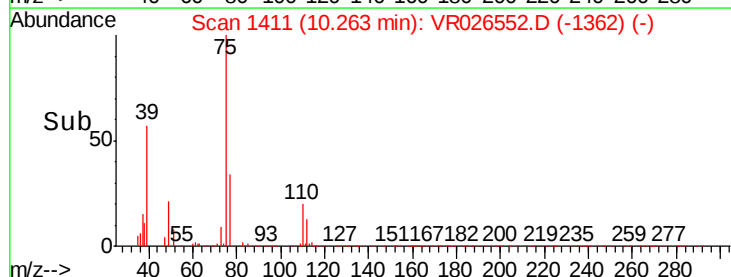
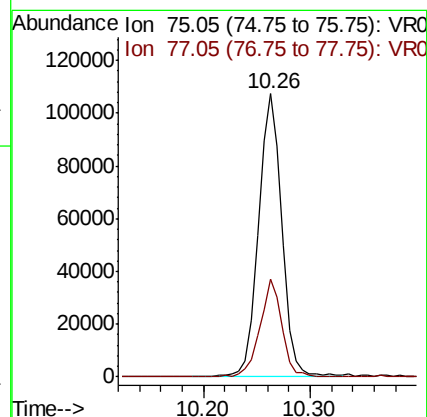
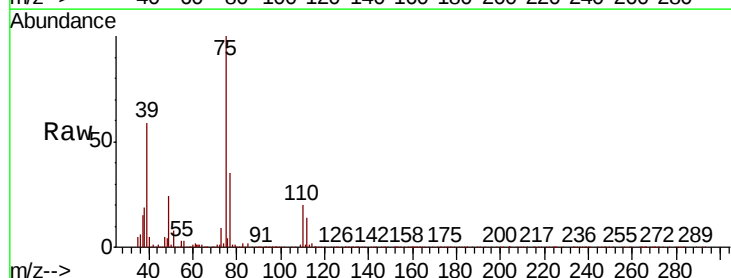
Acq: 10 Apr 2019 12:20

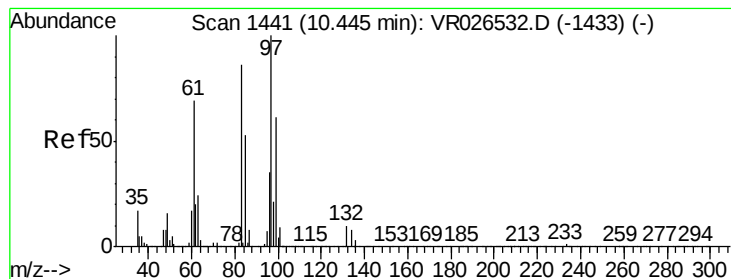
Tgt Ion: 75 Resp: 163973

Ion Ratio Lower Upper

75 100

77 34.6 22.7 42.1





#45

1,1,2-Trichloroethane

Concen: 5.190 ug/L

RT: 10.45 min Scan# 1441

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

Tot Ion: 97 Resp: 91914

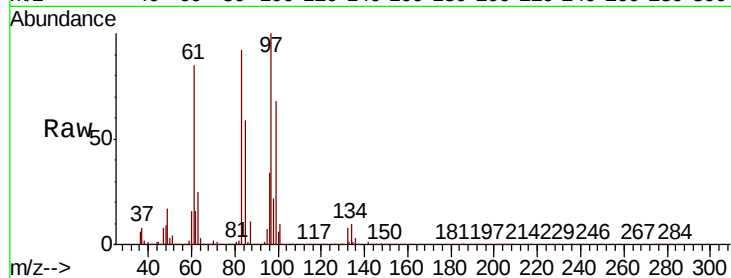
Ion Ratio Lower Upper

97 100

99 68.4 41.7 77.5

83 92.0 59.5 110.5

85 59.4 43.0 80.0



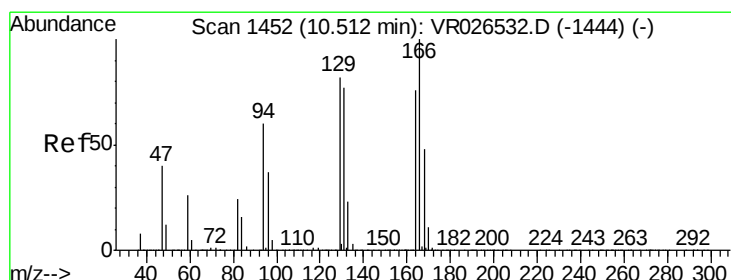
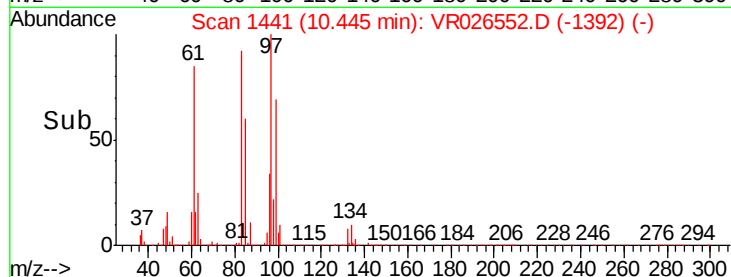
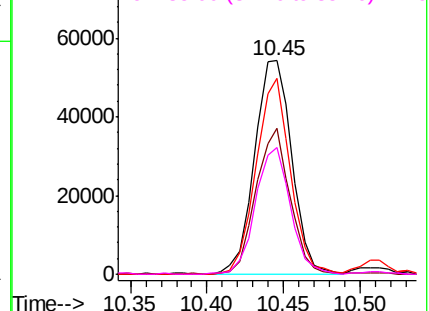
Abundance

Ion 96.95 (96.65 to 97.65): VR0

Ion 99.05 (98.75 to 99.75): VR0

Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0



#47

Tetrachloroethene

Concen: 5.043 ug/L

RT: 10.51 min Scan# 1452

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Tgt Ion: 164 Resp: 192051

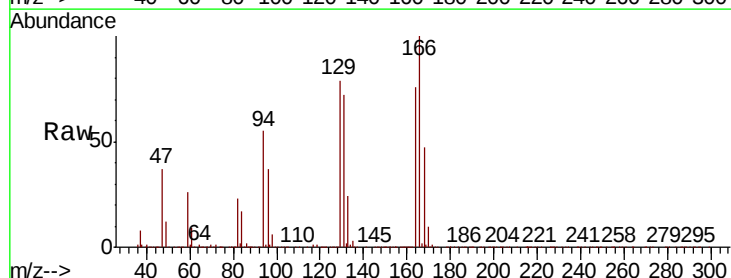
Ion Ratio Lower Upper

164 100

129 104.1 74.1 137.5

131 94.7 71.3 132.5

166 132.3 90.9 168.9



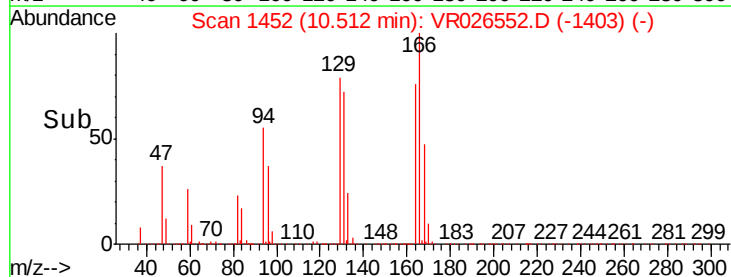
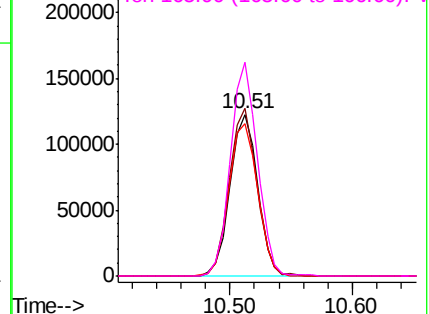
Abundance

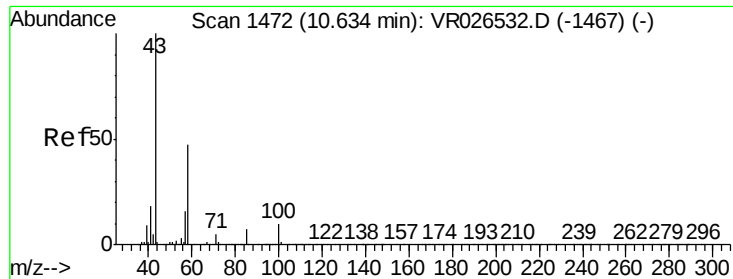
Ion 163.90 (163.60 to 164.60): V

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

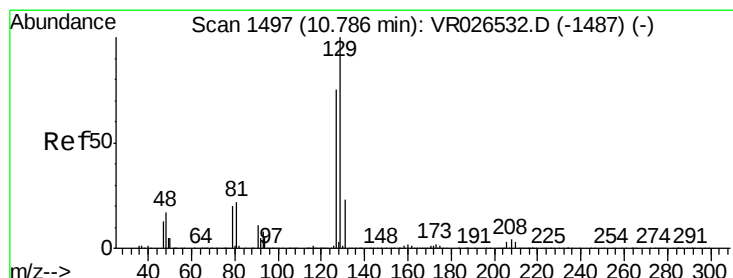
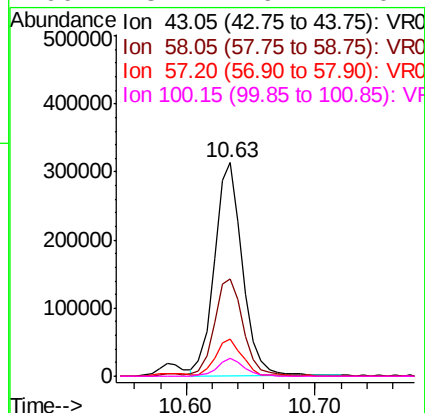
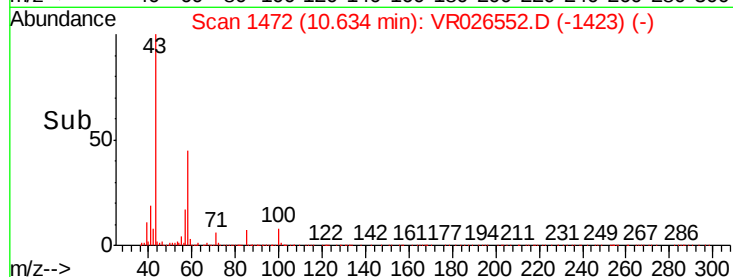
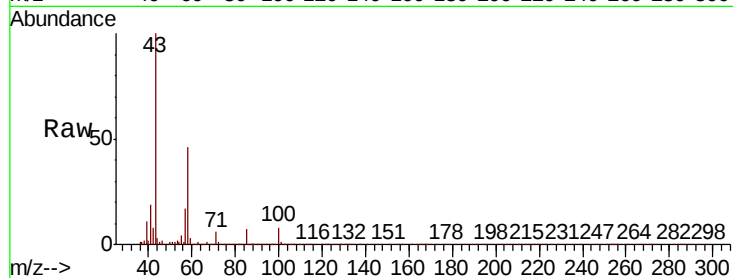




#48
2-Hexanone
Concen: 55.798 ug/L
RT: 10.63 min Scan# 1472
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

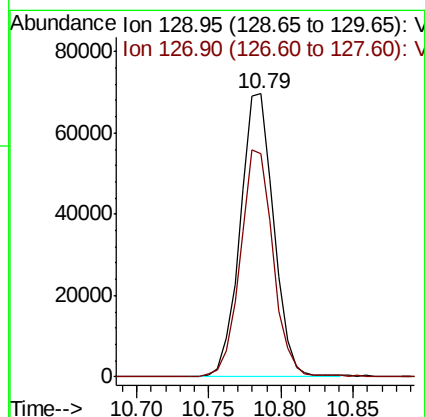
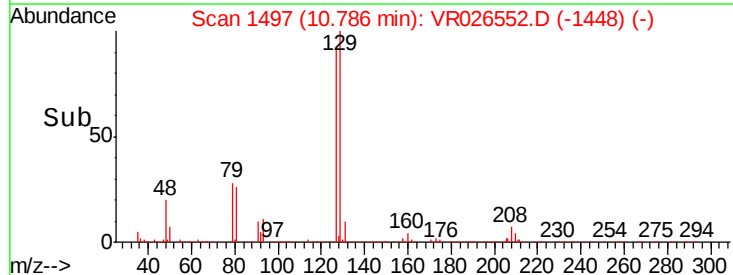
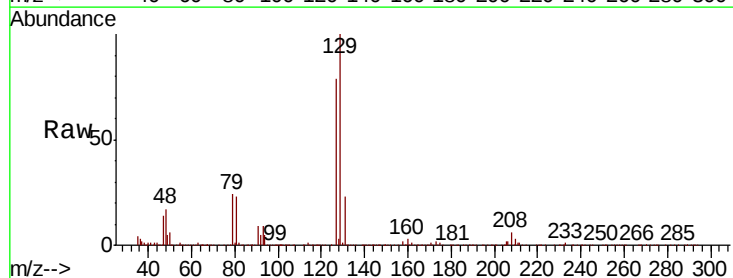
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

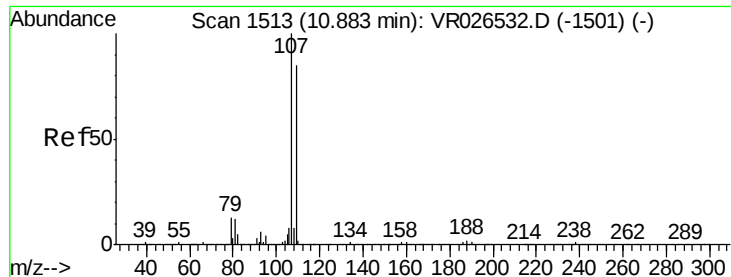
Tot Ion:	43	Resp:	476154
Ion	Ratio	Lower	Upper
43	100		
58	46.9	38.2	57.2
57	16.7	13.8	20.6
100	8.4	6.2	9.2



#49
Dibromochloromethane
Concen: 4.823 ug/L
RT: 10.79 min Scan# 1497
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion:	129	Resp:	111896
Ion	Ratio	Lower	Upper
129	100		
127	79.0	50.2	93.2

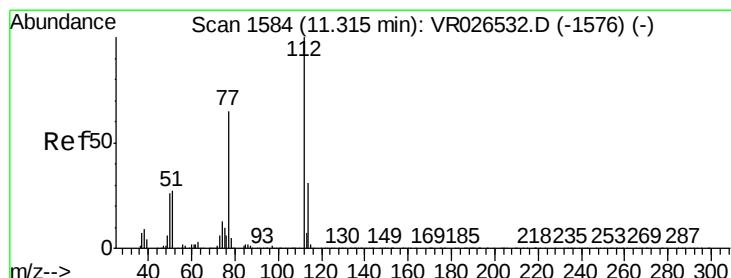
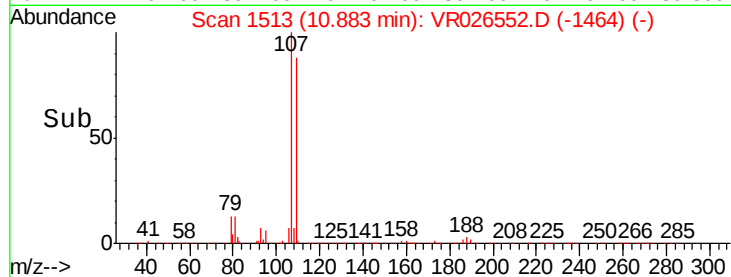
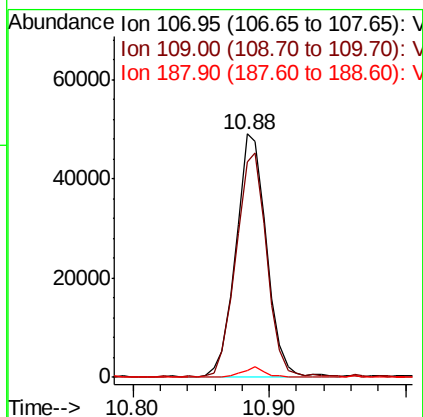
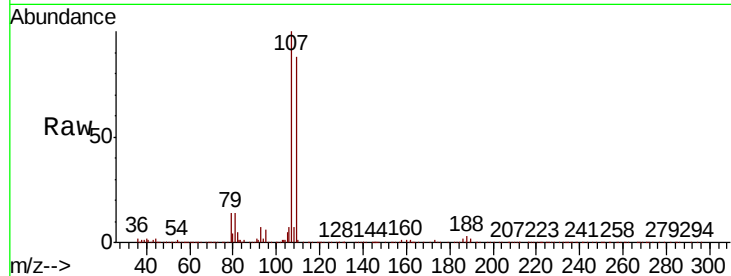




#50
1,2-Dibromoethane
Concen: 5.055 ug/L
RT: 10.88 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

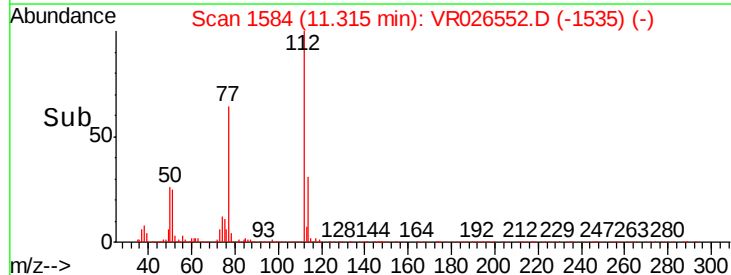
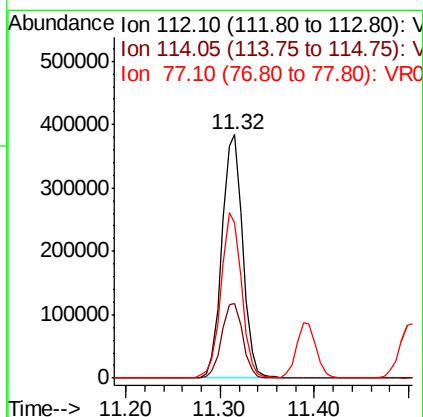
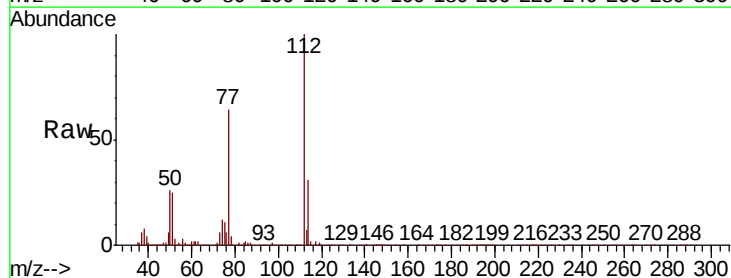
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

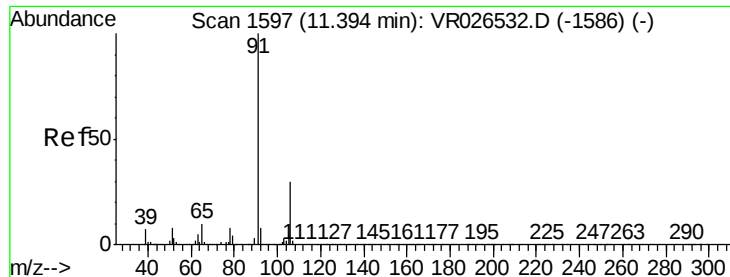
Tot Ion:107 Resp: 77005
Ion Ratio Lower Upper
107 100
109 88.4 66.8 124.2
188 2.7 2.8 4.2#



#51
Chlorobenzene
Concen: 5.080 ug/L
RT: 11.32 min Scan# 1584
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion:112 Resp: 583697
Ion Ratio Lower Upper
112 100
114 30.7 23.1 42.9
77 63.6 53.8 80.8





#52

Ethylbenzene

Concen: 5.413 ug/L

RT: 11.39 min Scan# 1596

Delta R.T. -0.01 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

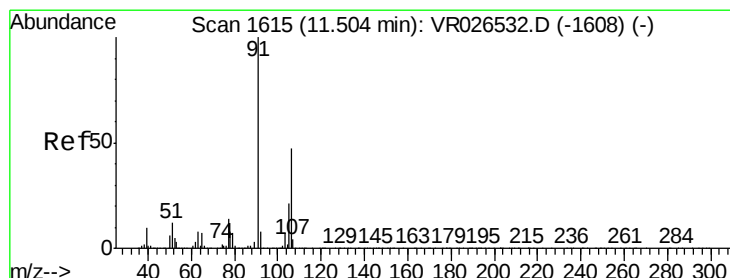
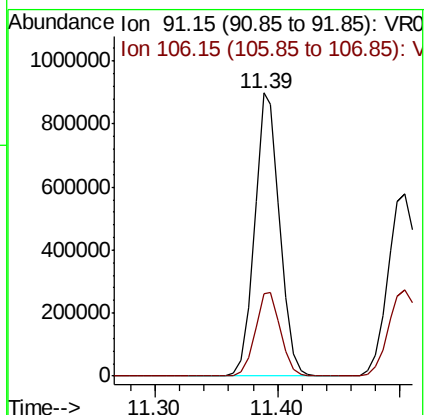
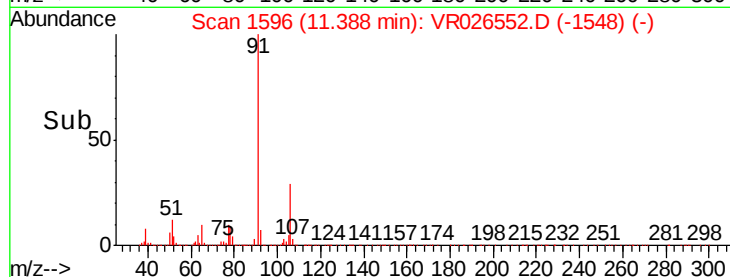
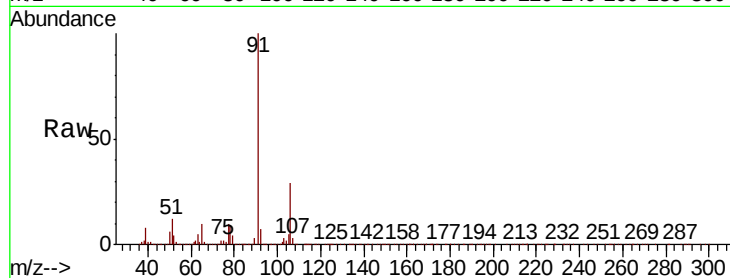
VSTD00568

Tot Ion: 91 Resp: 1276886

Ion Ratio Lower Upper

91 100

106 28.9 20.7 38.5



#53

m,p-Xylene

Concen: 5.534 ug/L

RT: 11.50 min Scan# 1615

Delta R.T. 0.00 min

Lab File: VR026552.D

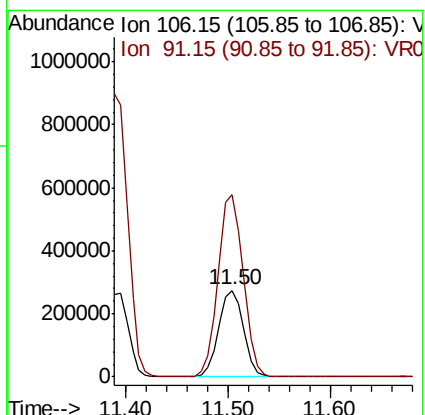
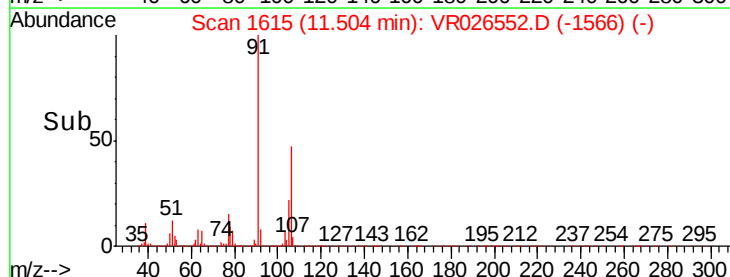
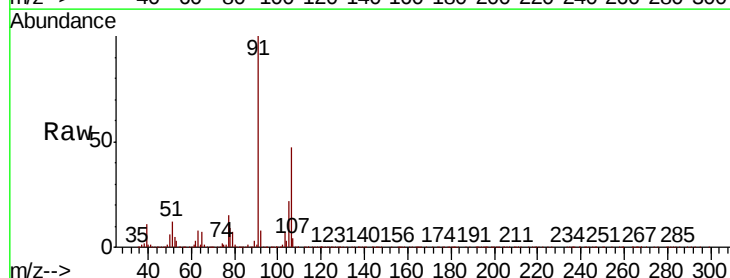
Acq: 10 Apr 2019 12:20

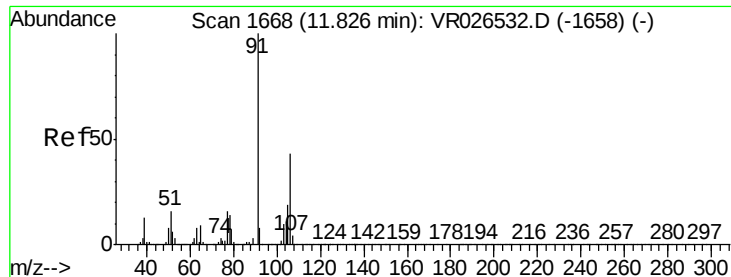
Tgt Ion:106 Resp: 467807

Ion Ratio Lower Upper

106 100

91 210.8 155.6 289.0

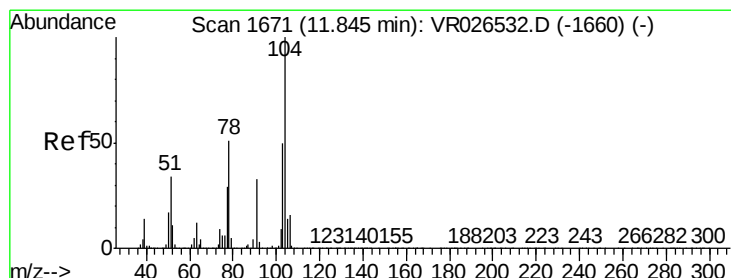
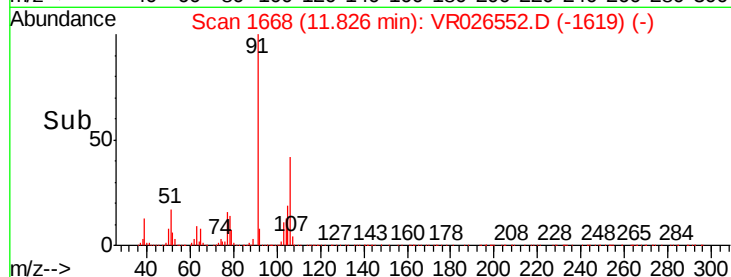
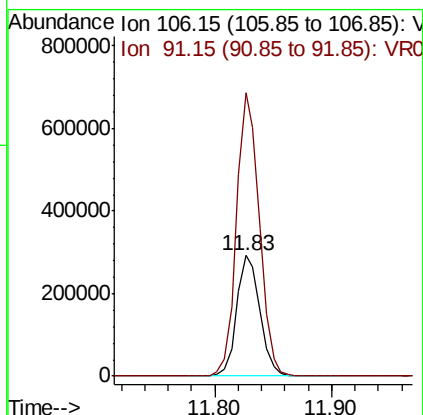
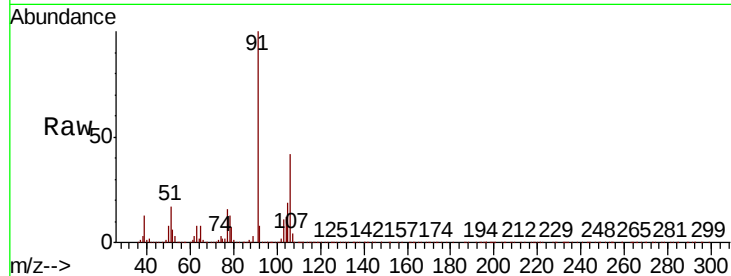




#54
o-Xylene
Concen: 5.457 ug/L
RT: 11.83 min Scan# 1668
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

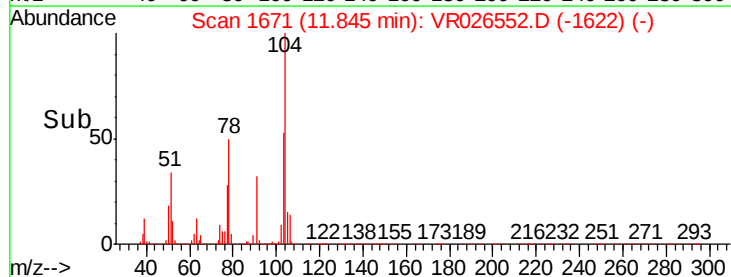
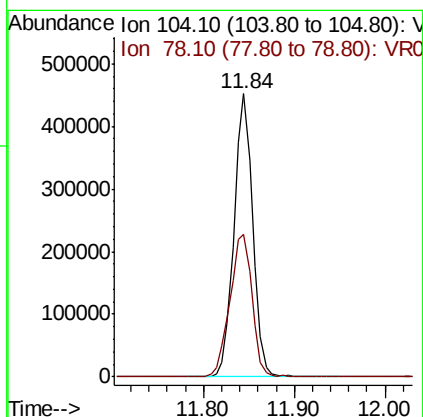
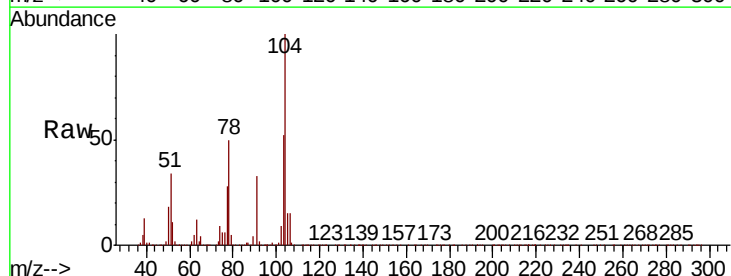
Instrument :
MSVOA_R
ClientSampleId :
VSTD00568

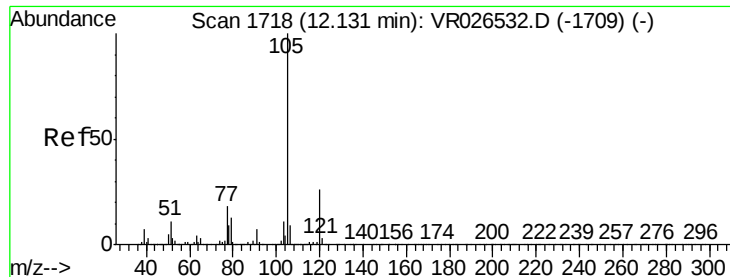
Tot Ion:106 Resp: 405363
Ion Ratio Lower Upper
106 100
91 235.4 166.2 308.6



#55
Styrene
Concen: 5.510 ug/L
RT: 11.84 min Scan# 1671
Delta R.T. 0.00 min
Lab File: VR026552.D
Acq: 10 Apr 2019 12:20

Tgt Ion:104 Resp: 646194
Ion Ratio Lower Upper
104 100
78 50.3 35.2 65.4





#56

Isopropylbenzene

Concen: 5.691 ug/L

RT: 12.13 min Scan# 1718

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

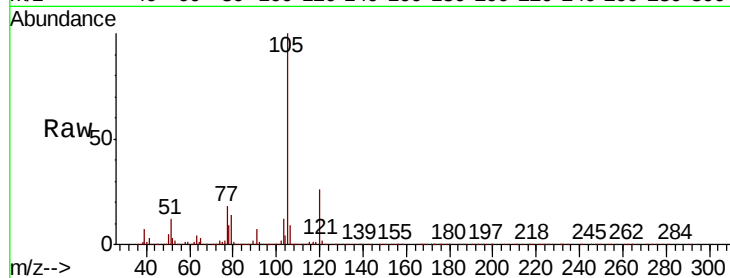
Tot Ion:105 Resp: 1199865

Ion Ratio Lower Upper

105 100

120 25.6 20.2 30.2

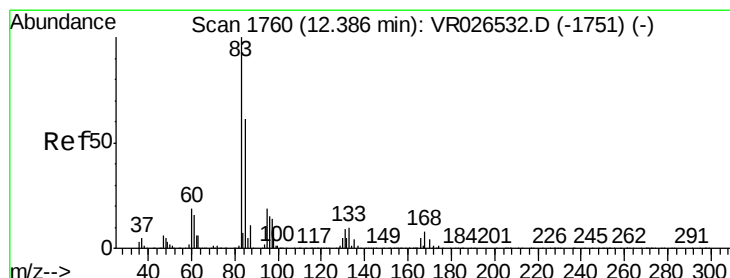
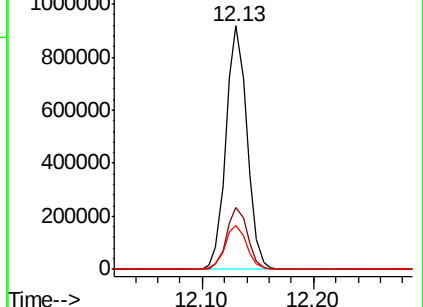
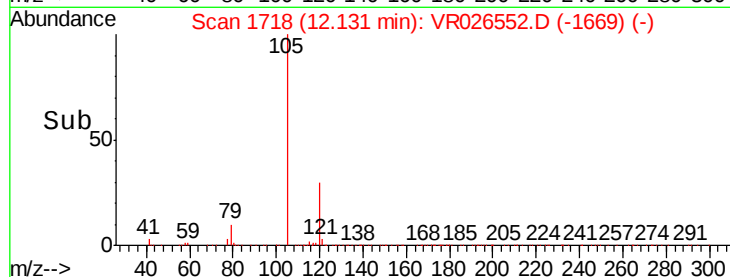
77 18.5 14.7 22.1



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: 4.909 ug/L

RT: 12.39 min Scan# 1760

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

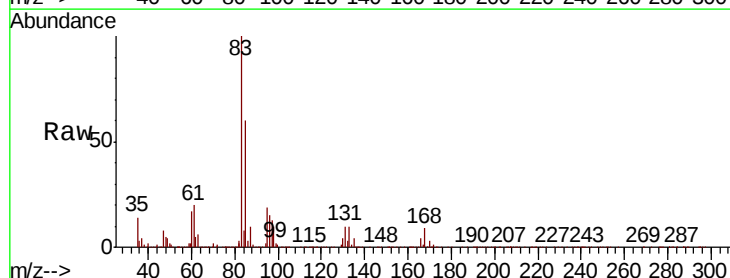
Tgt Ion: 83 Resp: 84422

Ion Ratio Lower Upper

83 100

85 60.1 45.1 83.7

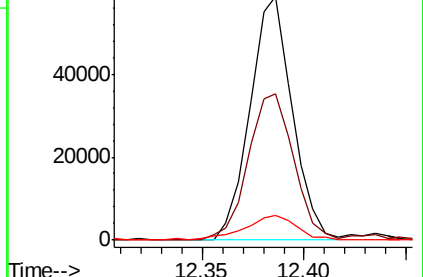
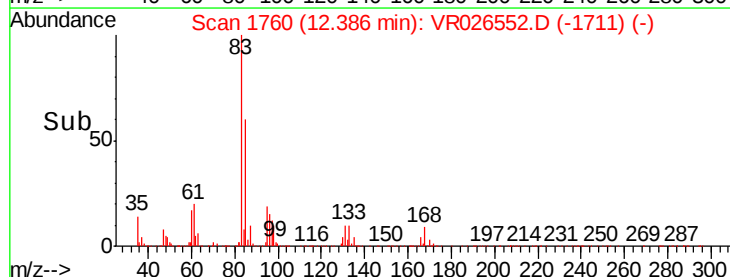
131 10.2 6.9 10.3

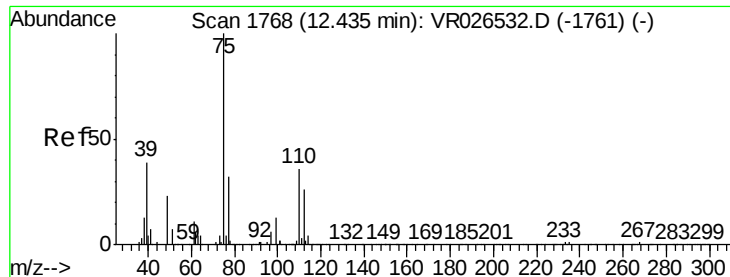


Abundance Ion 82.95 (82.65 to 83.65): VR0

Ion 85.00 (84.70 to 85.70): VR0

Ion 130.95 (130.65 to 131.65): V

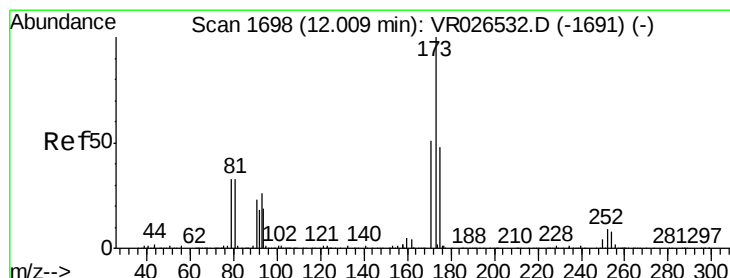
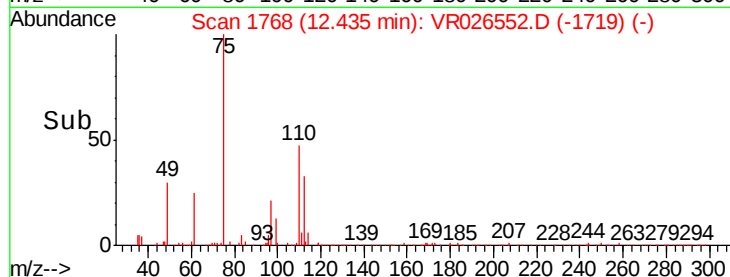
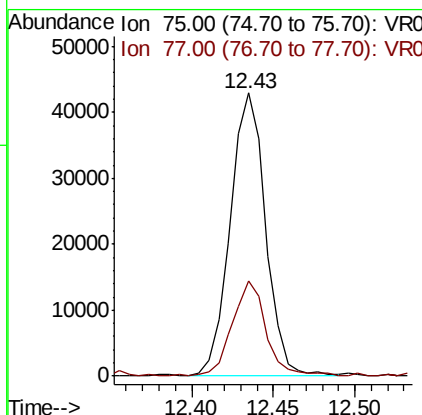
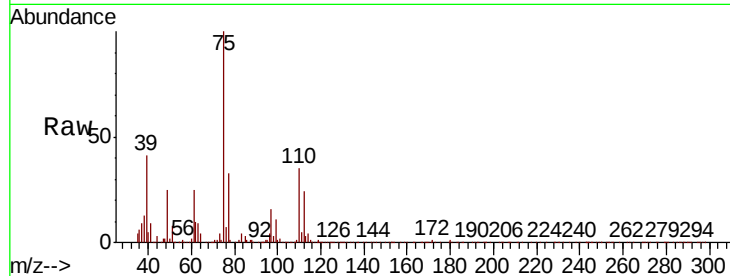




#59
 1,2,3-Trichloropropane
 Concen: 4.903 ug/L
 RT: 12.43 min Scan# 1768
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

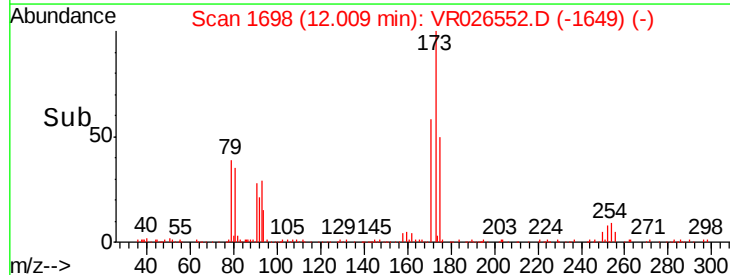
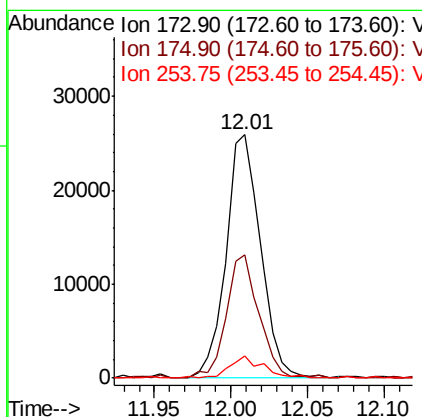
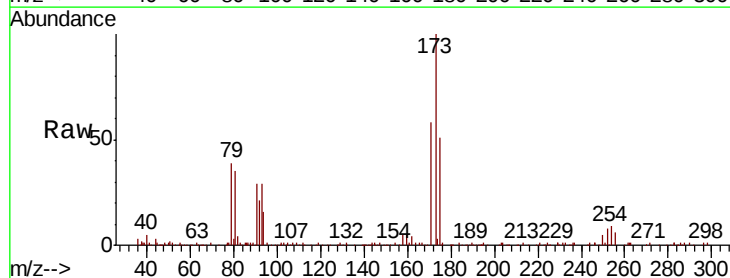
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

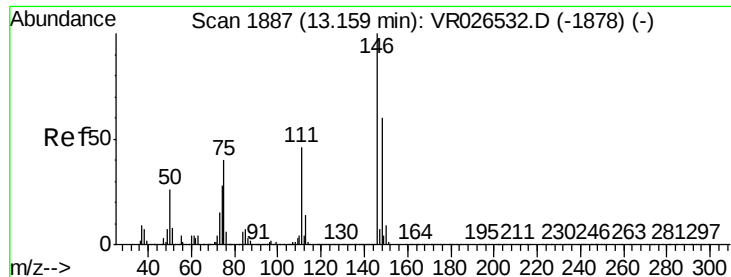
Tot Ion: 75 Resp: 64686
 Ion Ratio Lower Upper
 75 100
 77 32.2 25.0 37.4



#61
 Bromoform
 Concen: 4.416 ug/L
 RT: 12.01 min Scan# 1698
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Tgt Ion:173 Resp: 40480
 Ion Ratio Lower Upper
 173 100
 175 48.0 36.6 54.8
 254 9.0 8.0 12.0





#62

1,3-Dichlorobenzene

Concen: 4.959 ug/L

RT: 13.16 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

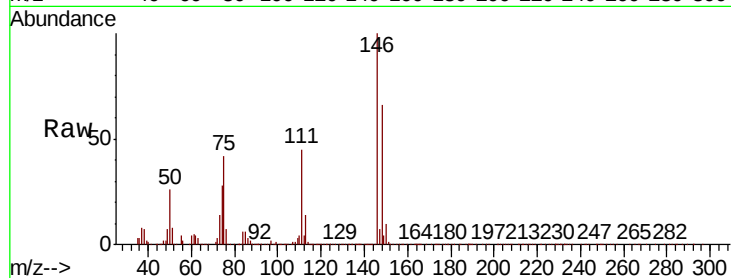
Tot Ion:146 Resp: 326569

Ion Ratio Lower Upper

146 100

111 45.3 30.4 56.5

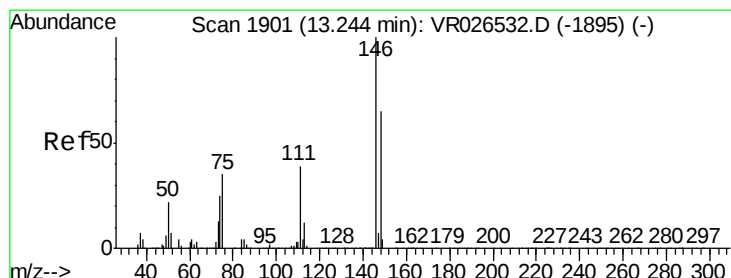
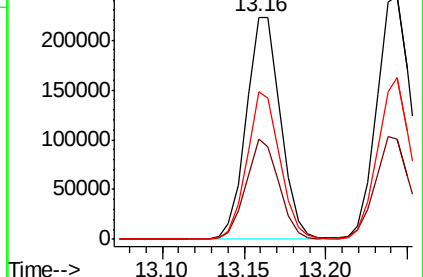
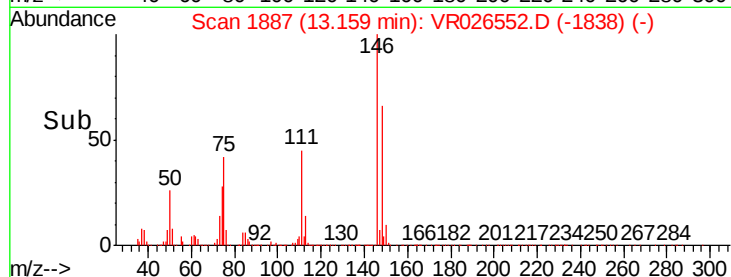
148 66.3 45.4 84.2



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.853 ug/L

RT: 13.24 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

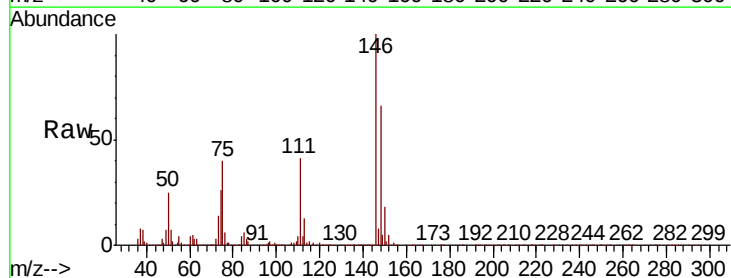
Tgt Ion:146 Resp: 358746

Ion Ratio Lower Upper

146 100

111 41.3 30.5 56.7

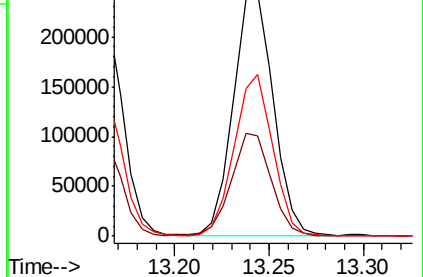
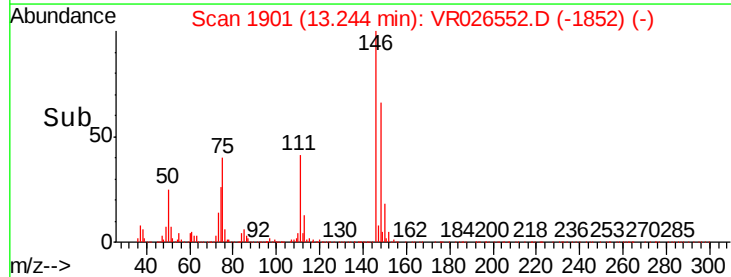
148 66.4 45.0 83.6

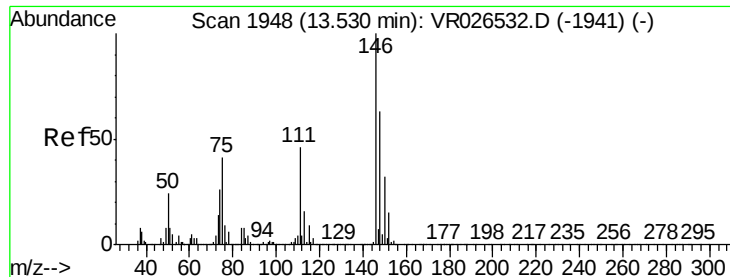


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

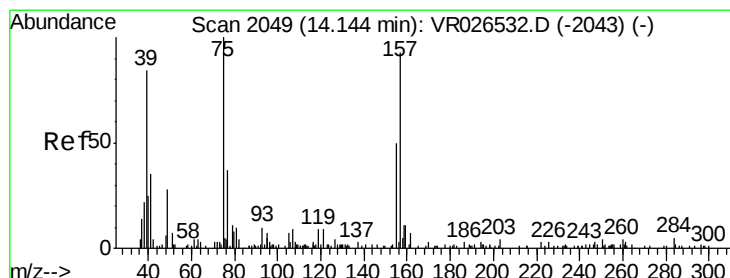
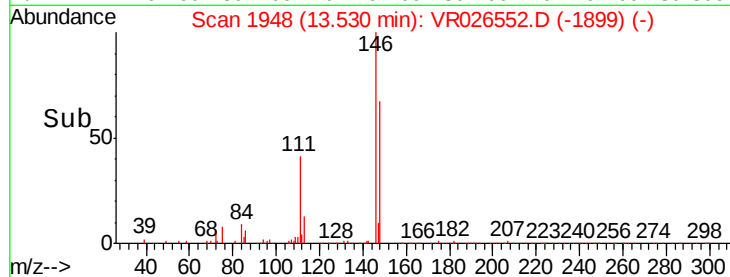
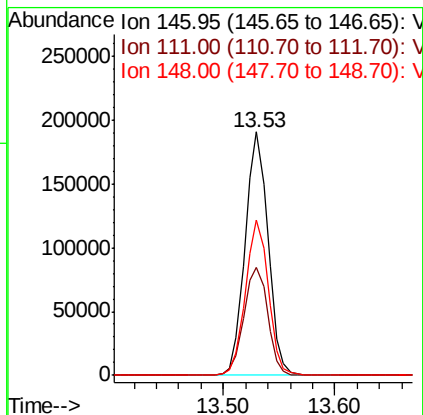
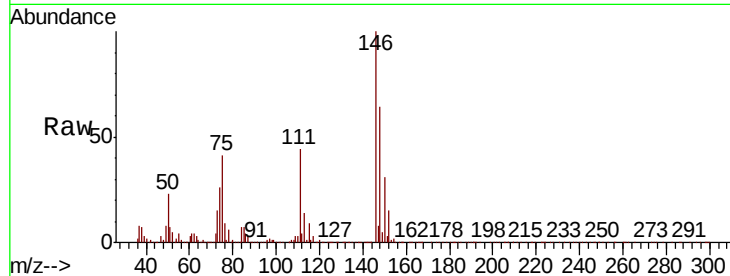




#65
 1,2-Dichlorobenzene
 Concen: 4.990 ug/L
 RT: 13.53 min Scan# 1948
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

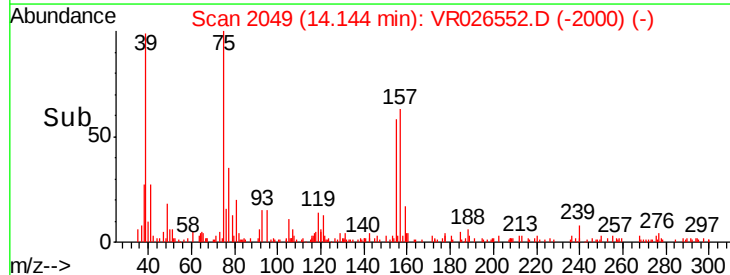
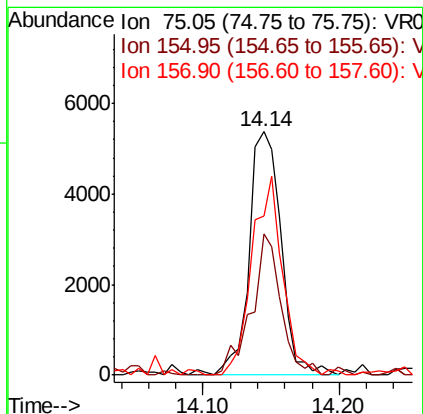
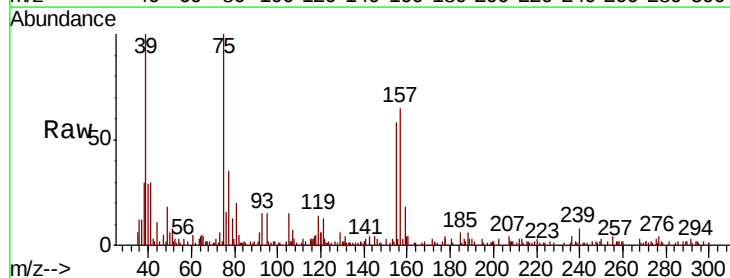
Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

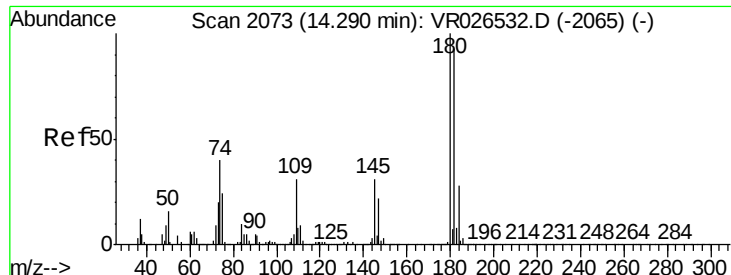
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.2	35.8	53.6
148	63.8	48.9	73.3



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.236 ug/L
 RT: 14.14 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Tgt Ion	Ratio	Lower	Upper
75	100		
155	57.9	36.1	54.1#
157	65.3	62.4	93.6

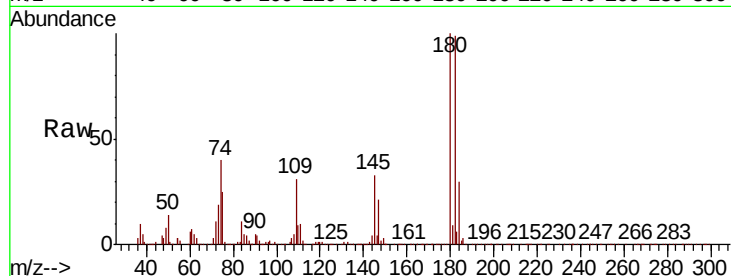




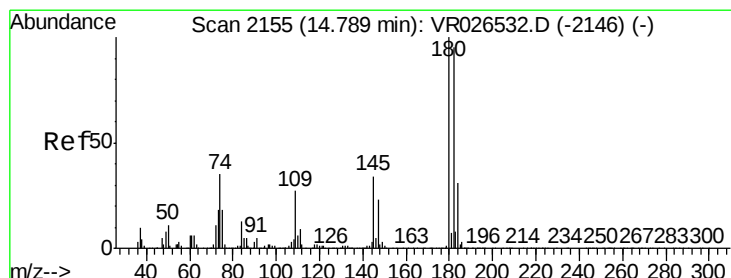
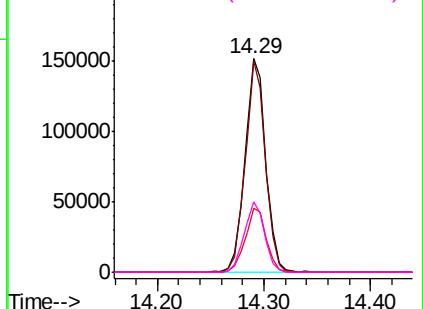
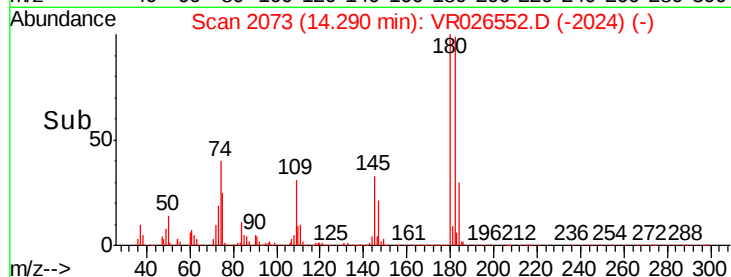
#67
 1,3,5-Trichlorobenzene
 Concen: 4.797 ug/L
 RT: 14.29 min Scan# 2073
 Delta R.T. 0.00 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Instrument :
 MSVOA_R
 ClientSampleId :
 VSTD00568

Tot Ion:	180	Resp:	206378
Ion	Ratio	Lower	Upper
180	100		
182	95.5	75.8	113.6
184	30.4	25.0	37.4
145	32.6	28.0	42.0

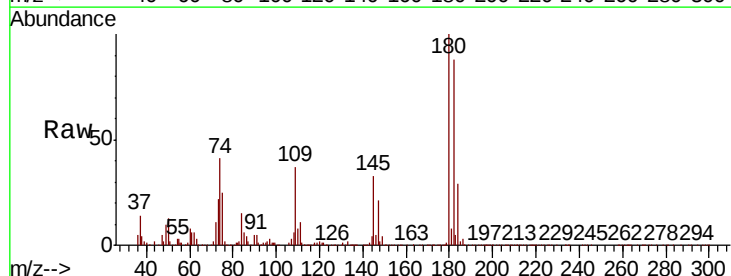


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

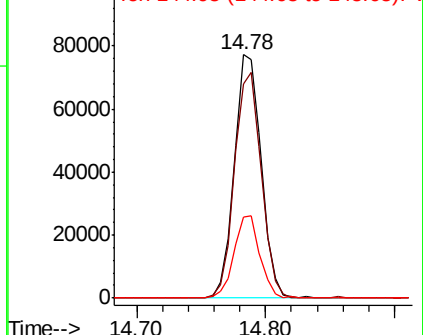
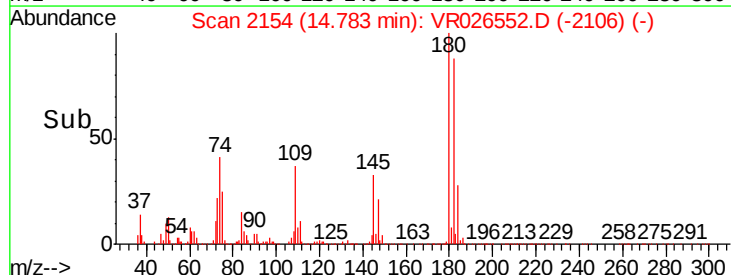


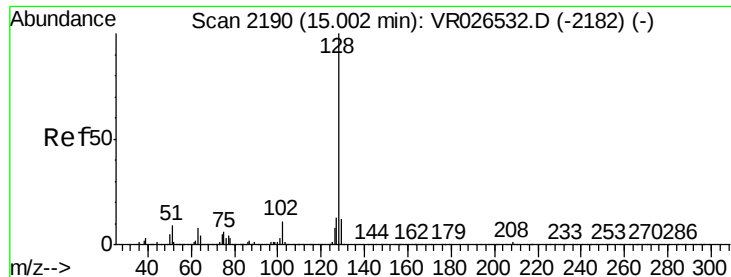
#68
 1,2,4-trichlorobenzene
 Concen: 4.688 ug/L
 RT: 14.78 min Scan# 2154
 Delta R.T. -0.01 min
 Lab File: VR026552.D
 Acq: 10 Apr 2019 12:20

Tgt Ion:	180	Resp:	112087
Ion	Ratio	Lower	Upper
180	100		
182	92.5	73.0	109.6
145	32.8	26.7	40.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.374 ug/L

RT: 15.00 min Scan# 2190

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

Instrument :

MSVOA_R

ClientSampleId :

VSTD00568

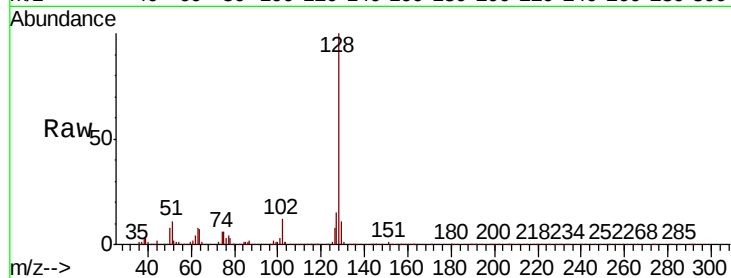
Tot Ion:128 Resp: 98367

Ion Ratio Lower Upper

128 100

127 13.9 11.4 17.0

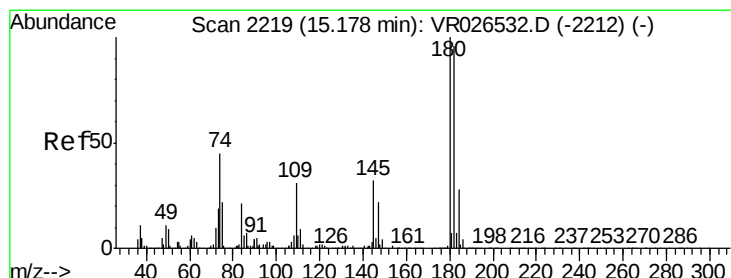
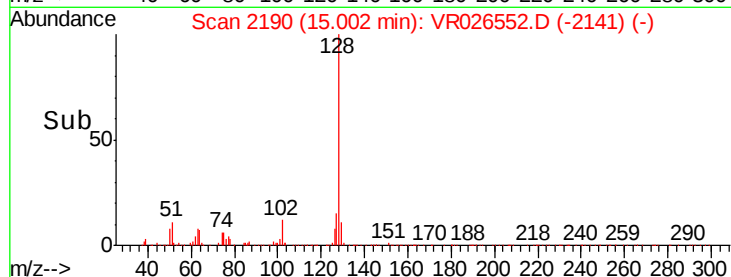
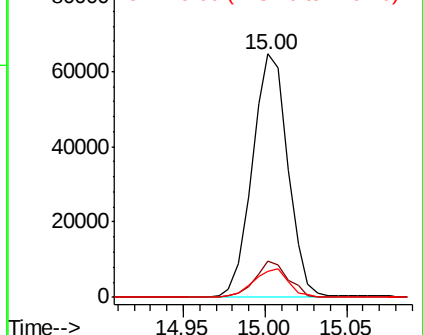
129 11.6 9.0 13.4



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.162 ug/L

RT: 15.18 min Scan# 2219

Delta R.T. 0.00 min

Lab File: VR026552.D

Acq: 10 Apr 2019 12:20

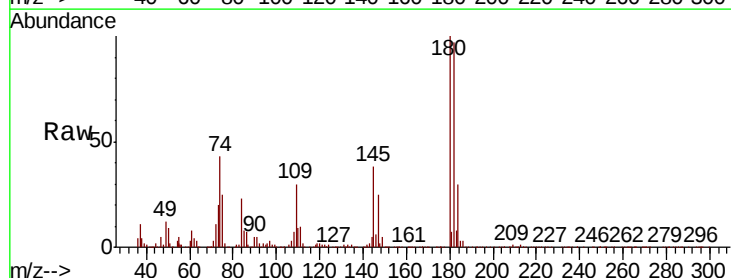
Tgt Ion:180 Resp: 85540

Ion Ratio Lower Upper

180 100

182 98.6 73.1 109.7

145 36.6 28.6 42.8



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

