

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW080718\
 Data File : VW004499.D
 Acq On : 07 Aug 2018 16:27
 Operator : SY/AP
 Sample : VSTDCCC025EC
 Misc : 5.00G/10ML/MSVOA_W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

Quant Time: Aug 08 05:39:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM080218S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Aug 08 05:39:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.85	114	979987	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	948435	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	495669	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.36	65	236466	19.40	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	77.60%
7) Chloroethane-d5	2.89	69	211684	20.64	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	82.56%
10) 1,1-Dichloroethene-d2	4.01	63	542491	21.92	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	87.68%
20) 2-Butanone-d5	7.09	46	242492	45.12	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	90.24%
24) Chloroform-d	7.65	84	617078	23.26	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.04%
26) 1,2-Dichloroethane-d4	8.31	65	334590	22.62	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	90.48%
29) Benzene-d6	8.27	84	1145823	22.71	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	90.84%
33) 1,2-Dichloropropane-d6	9.28	67	377703	22.91	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	91.64%
37) Toluene-d8	10.33	98	1013091	22.78	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	91.12%
38) trans-1,3-Dichloropropene-	10.58	79	152795	22.53	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	90.12%
39) 2-Hexanone-d5	10.93	63	195322	48.66	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	97.32%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	421180	23.55	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	94.20%
61) 1,2-Dichlorobenzene-d4	13.86	152	423324	22.74	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	90.96%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	2.01	85	251742	24.707 ug/L	98
3) Chloromethane	2.21	50	273898	20.352 ug/L	99
5) Vinyl chloride	2.37	62	434212	24.725 ug/L	97
6) Bromomethane	2.78	94	237117	23.346 ug/L	99
8) Chloroethane	2.93	64	259727	24.652 ug/L	99
9) Trichlorofluoromethane	3.25	101	186724	23.310 ug/L	100
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	363635	26.145 ug/L	96
12) 1,1-Dichloroethene	4.03	96	345046	25.393 ug/L	95
13) Acetone	4.15	43	241254	51.812 ug/L	98
14) Carbon disulfide	4.37	76	1018144	24.428 ug/L	100
15) Methyl Acetate	4.68	43	214036	22.552 ug/L	99
16) Methylene chloride	4.92	84	422533	21.707 ug/L	97
17) Methyl tert-butyl Ether	5.43	73	461527	25.092 ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	354637	25.520 ug/L	96
19) 1,1-Dichloroethane	6.21	63	680332	25.800 ug/L	99
21) 2-Butanone	7.18	43	309113	48.500 ug/L	99
22) cis-1,2-Dichloroethene	7.17	96	395675	26.087 ug/L	100

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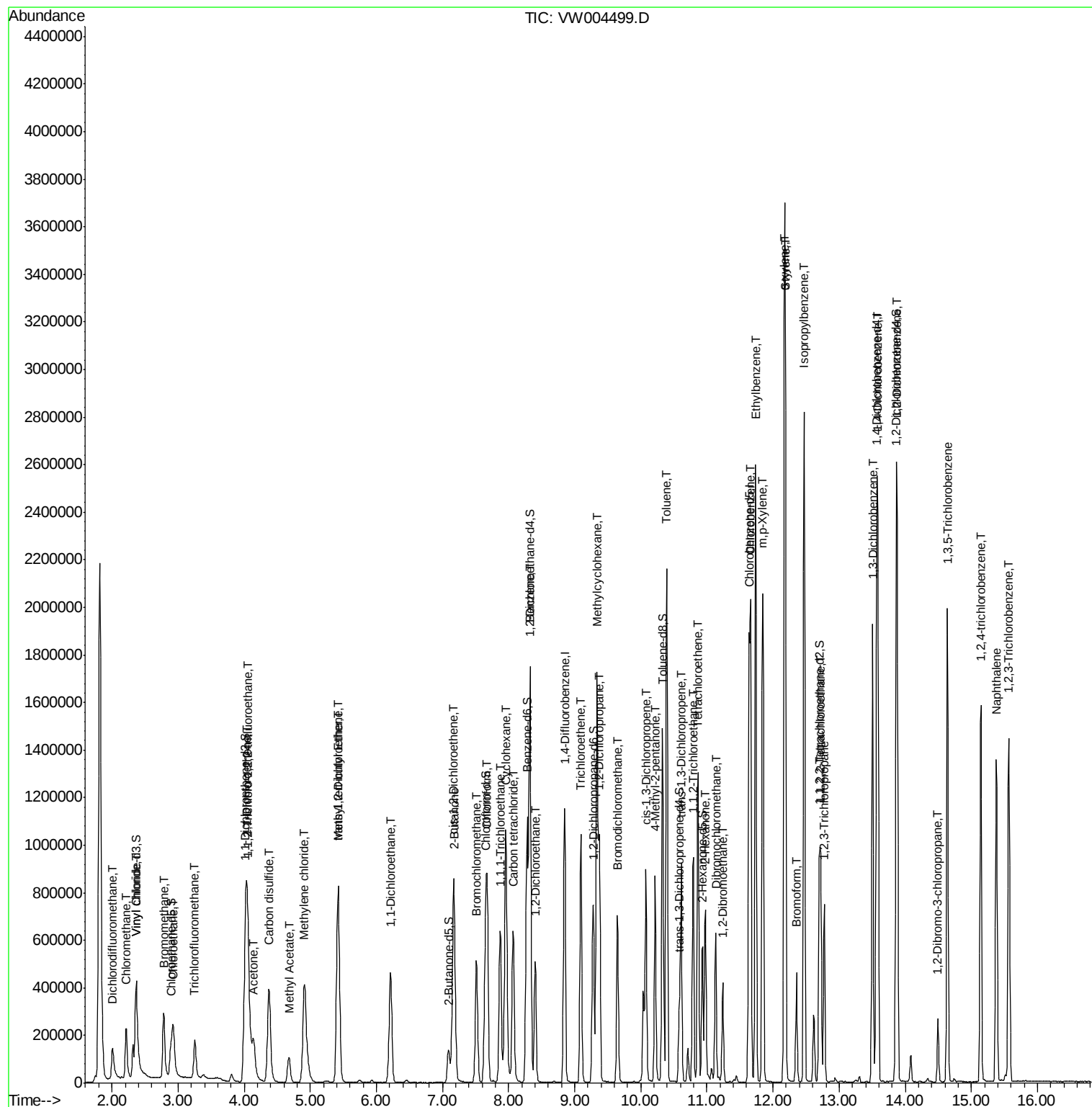
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	7.51	128	181464	24.997	ug/L	99
25) Chloroform	7.68	83	692400	25.725	ug/L	100
27) 1,2-Dichloroethane	8.40	62	450434	24.910	ug/L	99
30) Cyclohexane	7.96	56	607847	27.100	ug/L	100
31) 1,1,1-Trichloroethane	7.87	97	528344	26.220	ug/L	98
32) Carbon tetrachloride	8.07	117	497690	25.628	ug/L	99
34) Benzene	8.32	78	1541761	26.366	ug/L	100
35) Trichloroethene	9.09	95	380026	25.837	ug/L	99
36) Methylcyclohexane	9.34	83	689881	26.719	ug/L	99
40) 1,2-Dichloropropane	9.37	63	405407	26.177	ug/L	99
41) Bromodichloromethane	9.65	83	469257	25.224	ug/L	98
42) cis-1,3-Dichloropropene	10.08	75	542074	25.586	ug/L	98
43) 4-Methyl-2-pentanone	10.21	43	565184	48.671	ug/L	99
44) Toluene	10.39	91	1577346	26.805	ug/L	100
45) trans-1,3-Dichloropropene	10.61	75	490355	25.748	ug/L	98
46) 1,1,2-Trichloroethane	10.79	97	303713	25.225	ug/L	98
47) Tetrachloroethene	10.87	164	301323	25.892	ug/L	99
49) 2-Hexanone	10.98	43	436411	50.010	ug/L	98
50) Dibromochloromethane	11.13	129	336876	25.222	ug/L	99
51) 1,2-Dibromoethane	11.24	107	286361	24.812	ug/L	98
52) Chlorobenzene	11.66	112	1025522	25.769	ug/L	99
53) Ethylbenzene	11.74	91	1783044	26.964	ug/L	99
54) m,p-Xylene	11.84	106	678472	27.501	ug/L	97
55) o-xylene	12.17	106	641427	27.439	ug/L	100
56) Styrene	12.19	104	1153036	28.307	ug/L	99
57) Isopropylbenzene	12.47	105	1777770	28.096	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.72	83	426363	24.399	ug/L	98
59) 1,2,3-Trichloropropane	12.77	75	315413	24.167	ug/L	99
62) Bromoform	12.35	173	212448	23.583	ug/L	99
63) 1,3-Dichlorobenzene	13.51	146	789425	25.595	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	839455	25.325	ug/L	99
65) 1,2-Dichlorobenzene	13.88	146	787613	25.486	ug/L	99
66) 1,2-Dibromo-3-chloropropan	14.49	75	68420	21.553	ug/L	98
67) 1,3,5-Trichlorobenzene	14.64	180	636324	26.026	ug/L	99
68) 1,2,4-trichlorobenzene	15.15	180	517855	26.180	ug/L	99
69) Naphthalene	15.38	128	1137551	25.218	ug/L	100
70) 1,2,3-Trichlorobenzene	15.57	180	514689	26.719	ug/L	99

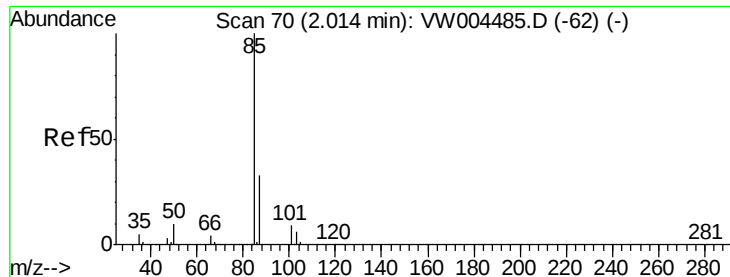
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 24.707 ug/L

RT: 2.01 min Scan# 69

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

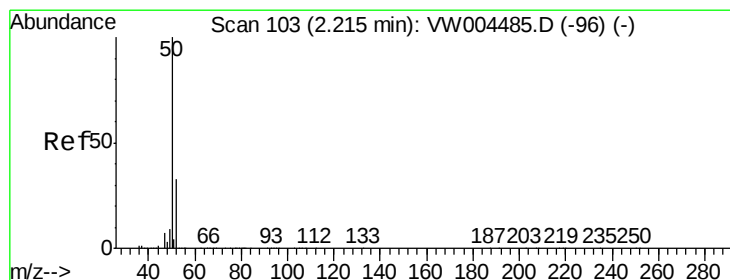
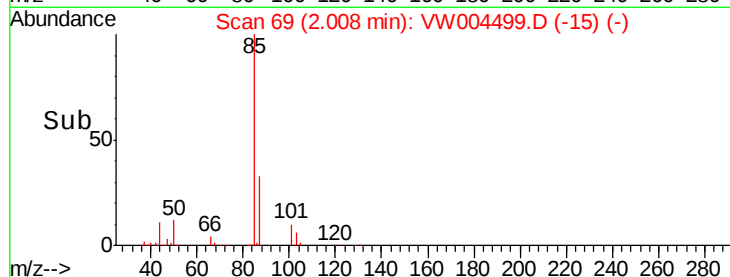
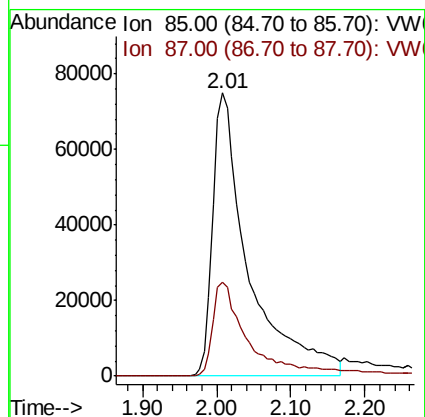
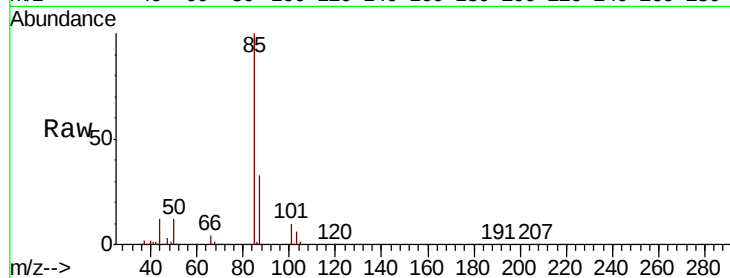
VSTD02582

Tgt Ion: 85 Resp: 251742

Ion Ratio Lower Upper

85 100

87 30.1 20.2 37.4



#3

Chloromethane

Concen: 20.352 ug/L

RT: 2.21 min Scan# 102

Delta R.T. -0.01 min

Lab File: VW004499.D

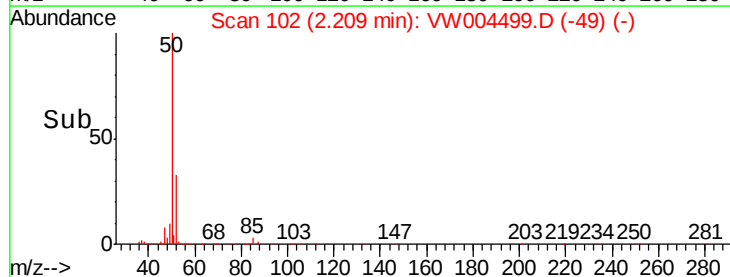
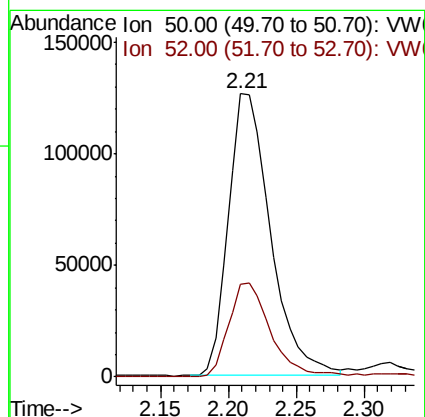
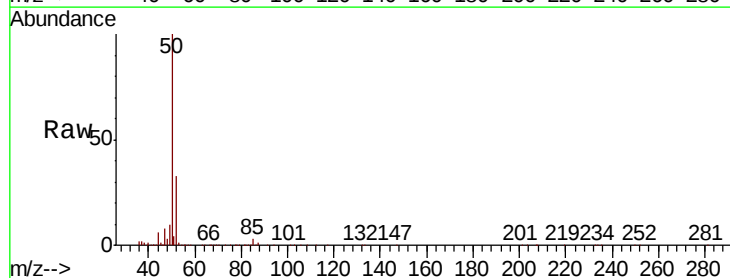
Acq: 07 Aug 2018 16:27

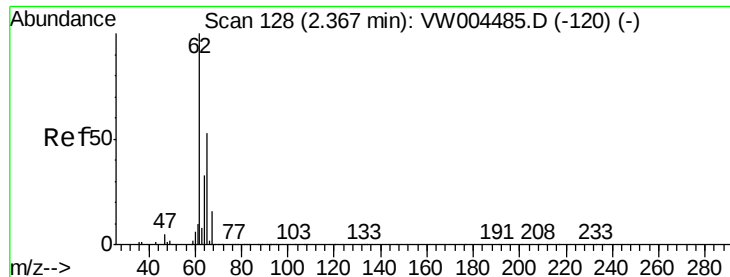
Tgt Ion: 50 Resp: 273898

Ion Ratio Lower Upper

50 100

52 32.7 23.4 43.6





#5

Vinyl chloride

Concen: 24.725 ug/L

RT: 2.37 min Scan# 128

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

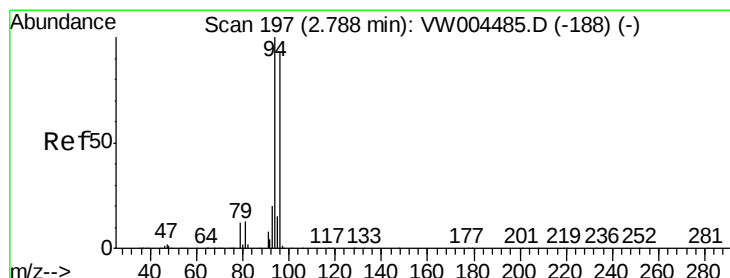
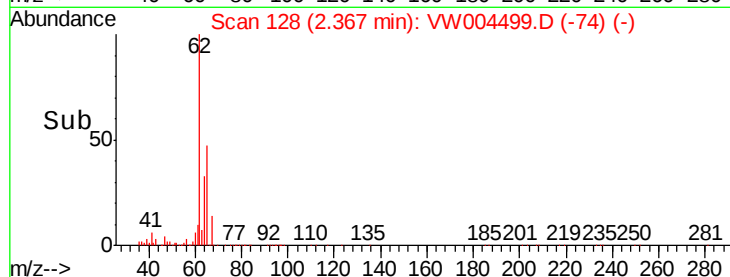
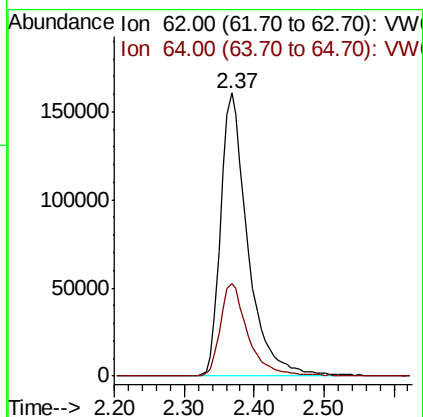
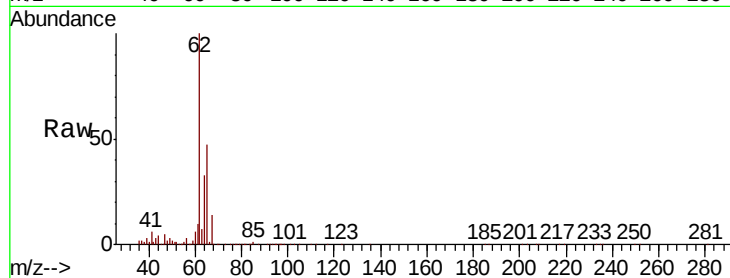
VSTD02582

Tgt Ion: 62 Resp: 434212

Ion Ratio Lower Upper

62 100

64 32.8 24.0 44.6



#6

Bromomethane

Concen: 23.346 ug/L

RT: 2.78 min Scan# 196

Delta R.T. -0.00 min

Lab File: VW004499.D

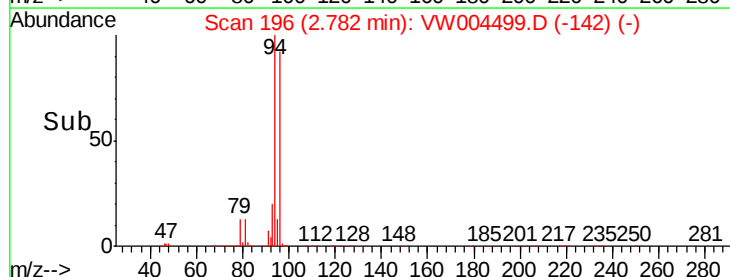
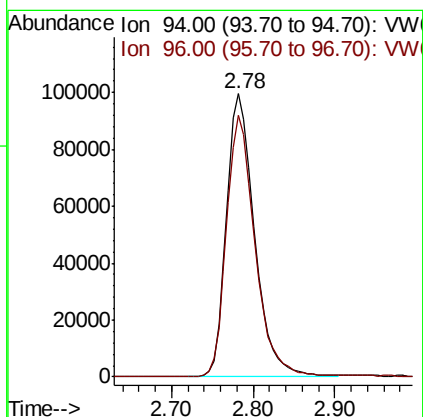
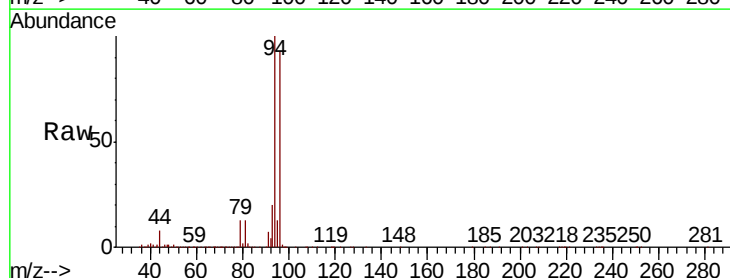
Acq: 07 Aug 2018 16:27

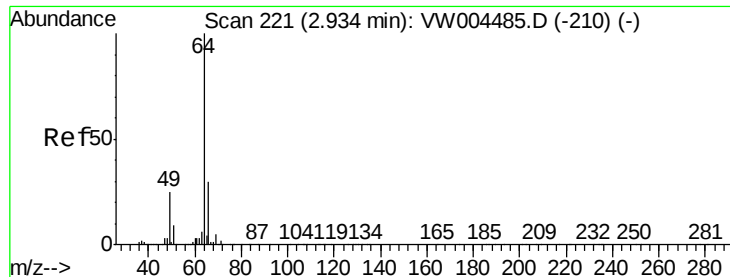
Tgt Ion: 94 Resp: 237117

Ion Ratio Lower Upper

94 100

96 92.9 9.2 175.2





#8

Chloroethane

Concen: 24.652 ug/L

RT: 2.93 min Scan# 220

Delta R.T. 0.01 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

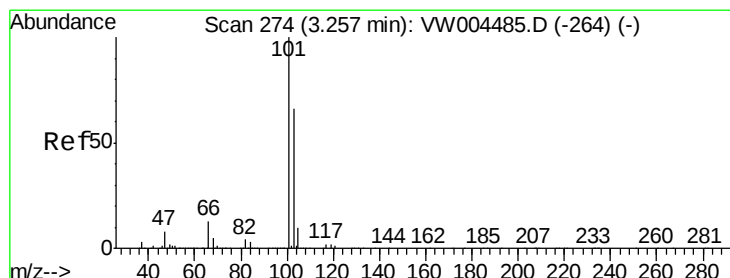
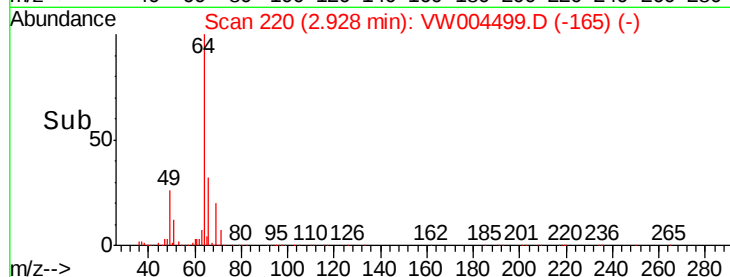
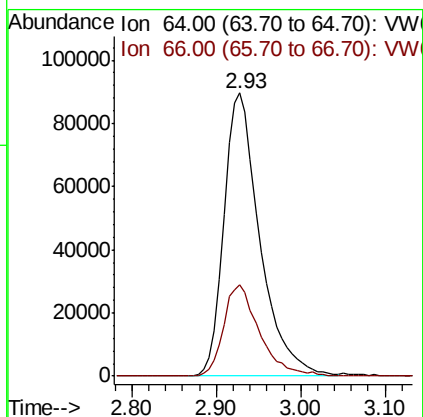
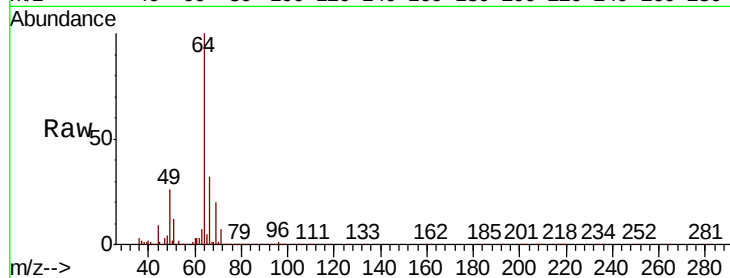
VSTD02582

Tgt Ion: 64 Resp: 259727

Ion Ratio Lower Upper

64 100

66 32.3 22.8 42.4



#9

Trichlorofluoromethane

Concen: 23.310 ug/L

RT: 3.25 min Scan# 273

Delta R.T. -0.00 min

Lab File: VW004499.D

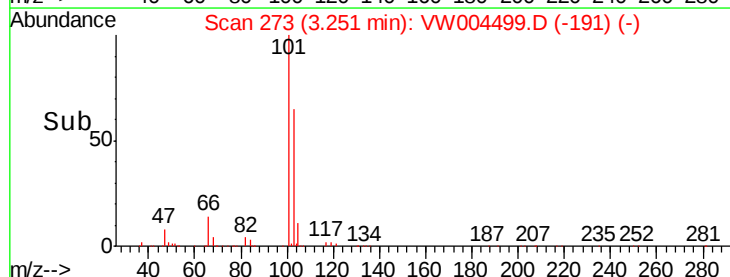
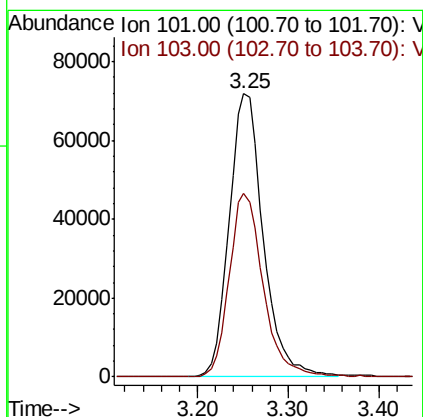
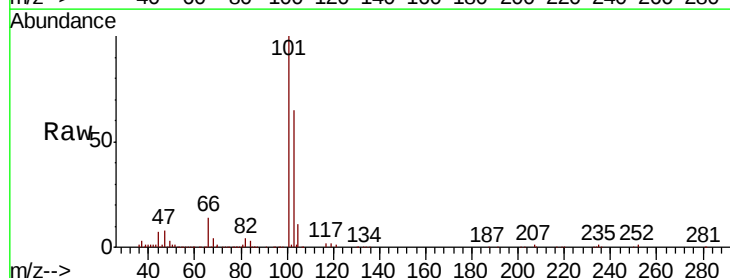
Acq: 07 Aug 2018 16:27

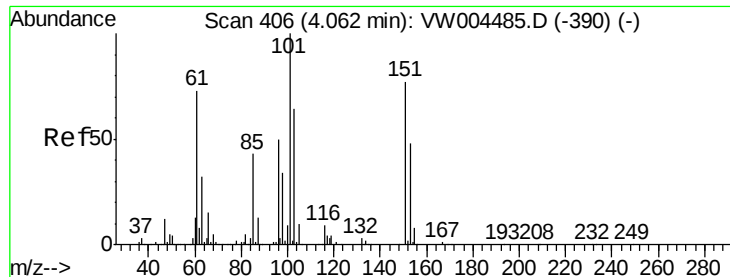
Tgt Ion: 101 Resp: 186724

Ion Ratio Lower Upper

101 100

103 64.8 45.3 84.1





#11

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

Concen: 26.145 ug/L

RT: 4.06 min Scan# 405

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

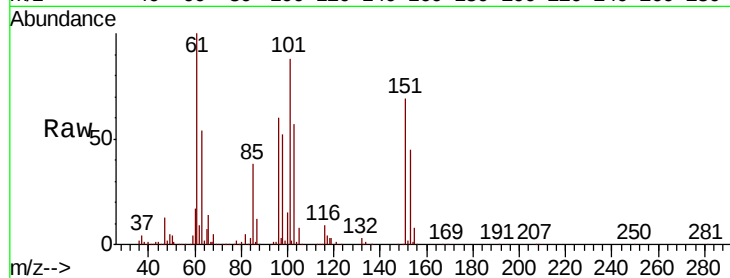
Tgt Ion: 101 Resp: 363635

Ion Ratio Lower Upper

101 100

85 42.7 35.6 53.4

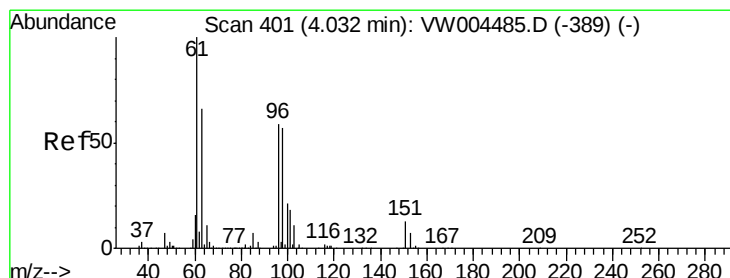
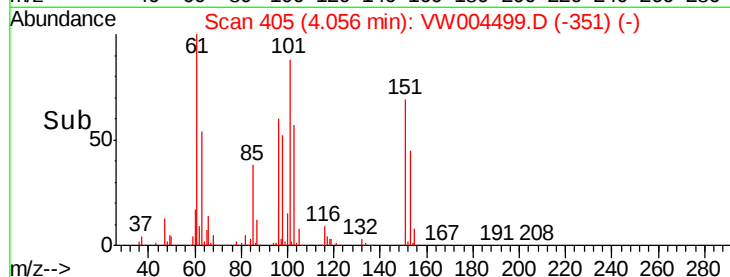
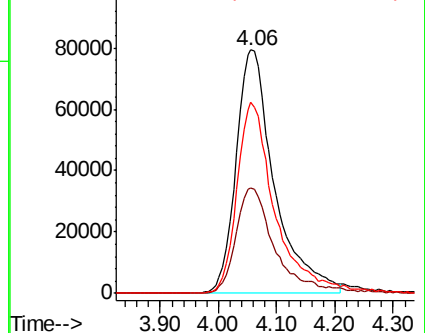
151 74.3 62.6 94.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 25.393 ug/L

RT: 4.03 min Scan# 401

Delta R.T. 0.01 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

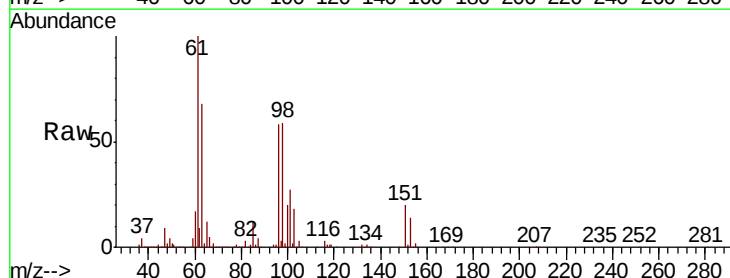
Tgt Ion: 96 Resp: 345046

Ion Ratio Lower Upper

96 100

61 172.2 115.9 215.3

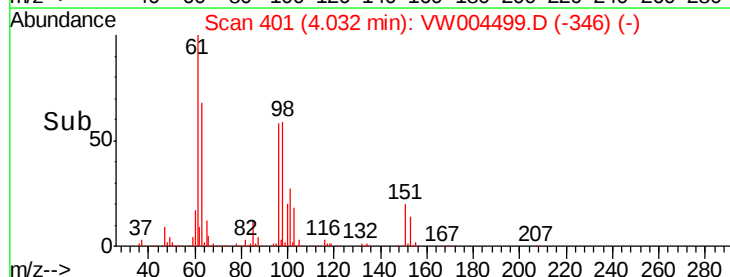
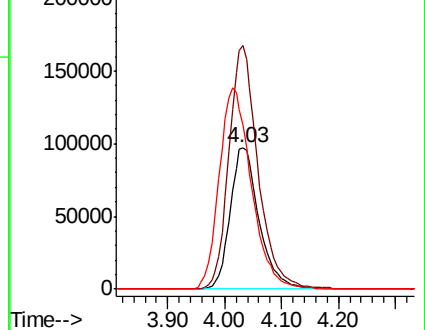
63 116.3 78.0 144.9

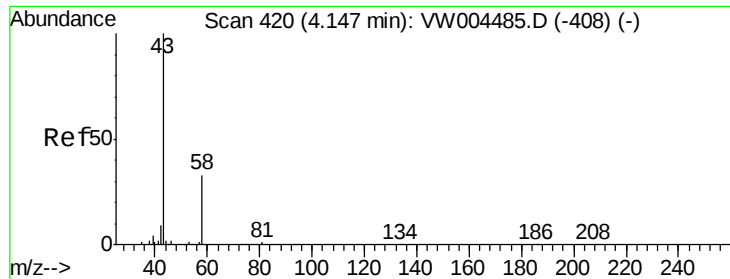


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#13

Acetone

Concen: 51.812 ug/L

RT: 4.15 min Scan# 420

Delta R.T. 0.01 min

Lab File: VW004499.D

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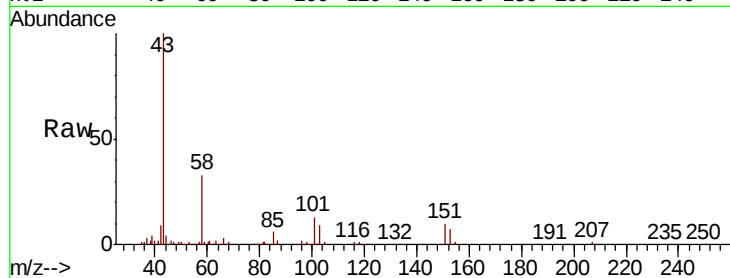
VSTD02582

Tgt Ion: 43 Resp: 241254

Ion Ratio Lower Upper

43 100

58 34.5 0.0 66.4



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

80000

60000

40000

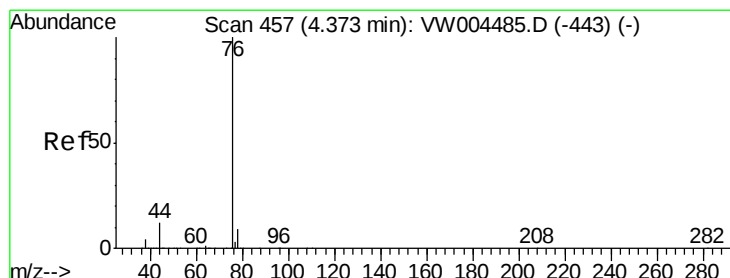
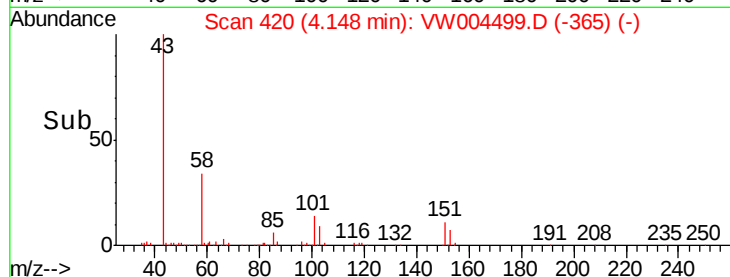
20000

0

4.15

4.10 4.20

Time-->



#14

Carbon disulfide

Concen: 24.428 ug/L

RT: 4.37 min Scan# 457

Delta R.T. -0.00 min

Lab File: VW004499.D

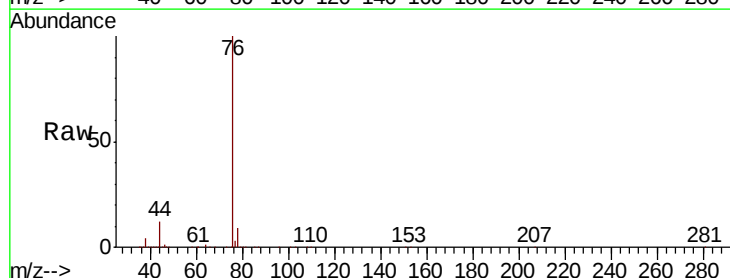
Acq: 07 Aug 2018 16:27

Tgt Ion: 76 Resp: 1018144

Ion Ratio Lower Upper

76 100

78 9.1 7.2 10.8



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW

300000

200000

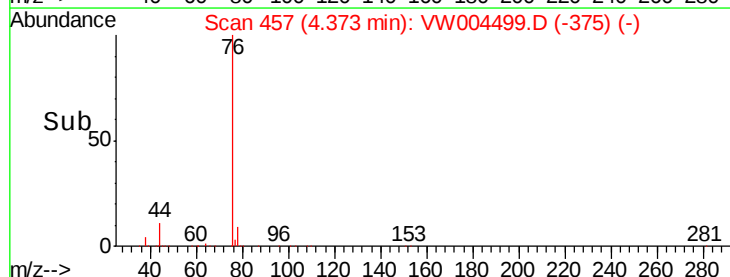
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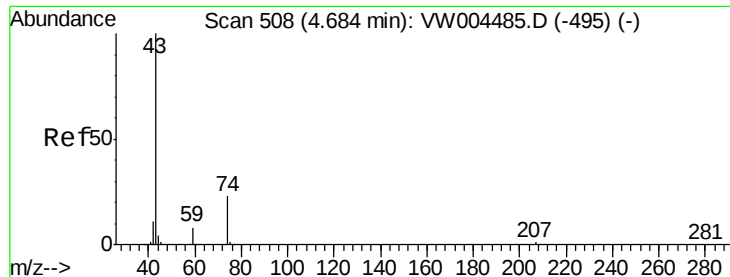
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4.37

4.20 4.30 4.40 4.50 4.60

Time-->

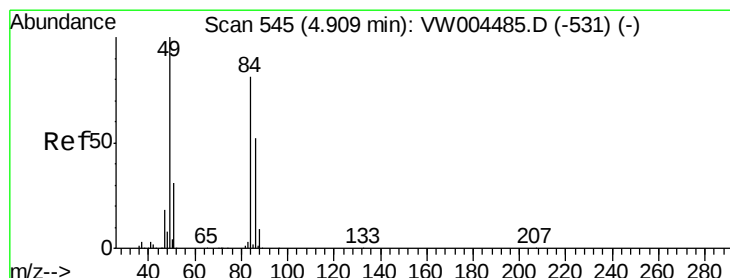
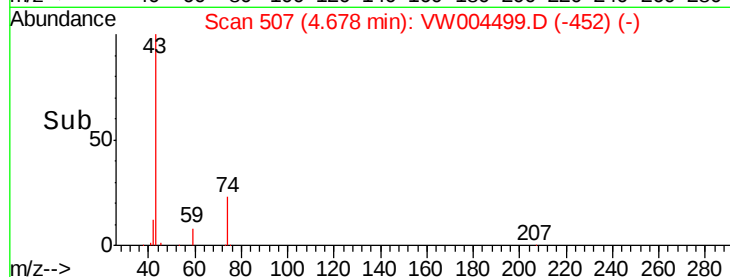
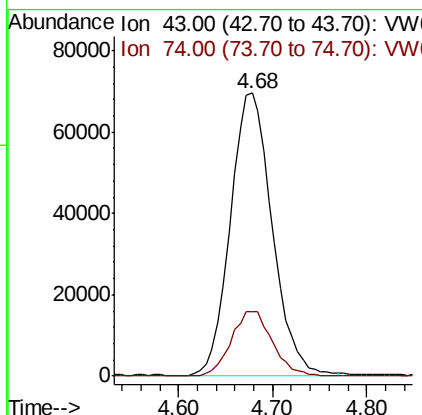
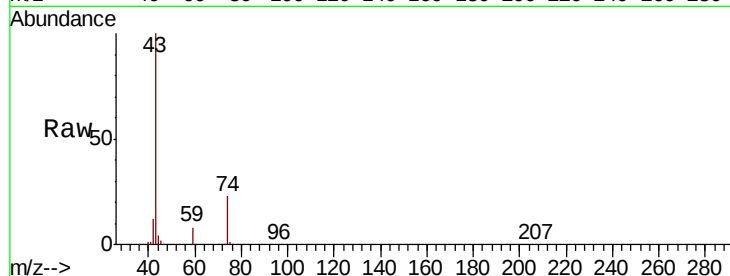




#15
Methyl Acetate
Concen: 22.552 ug/L
RT: 4.68 min Scan# 507
Delta R.T. 0.01 min
Lab File: VW004499.D
Acq: 07 Aug 2018 16:27

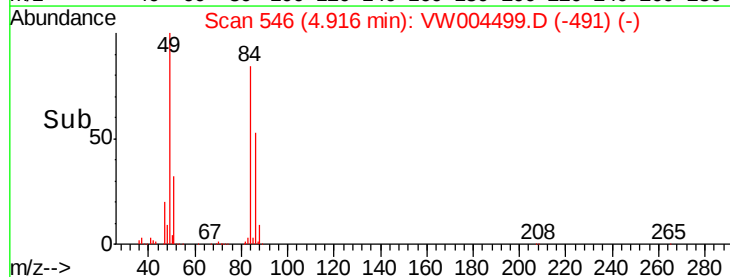
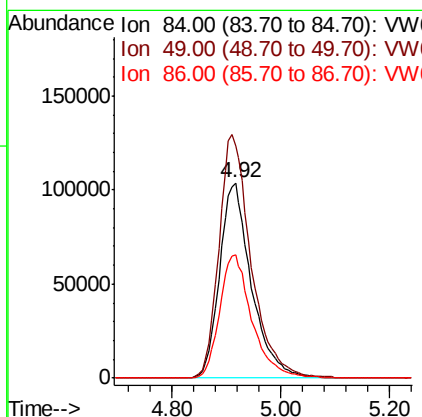
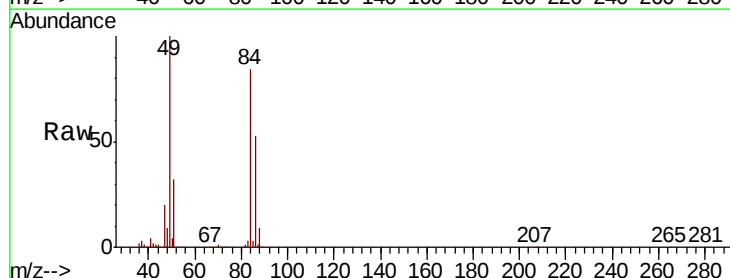
Instrument :
MSVOA_W
ClientSampleId :
VSTD02582

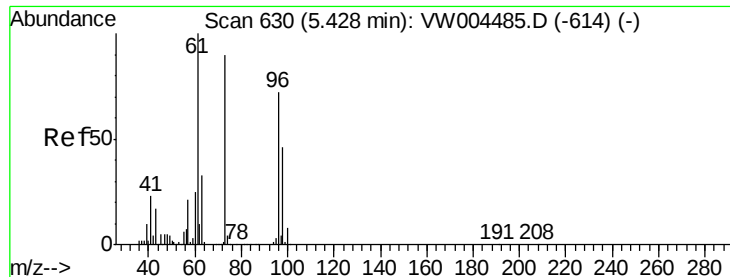
Tgt Ion: 43 Resp: 214036
Ion Ratio Lower Upper
43 100
74 22.8 18.6 28.0



#16
Methylene chloride
Concen: 21.707 ug/L
RT: 4.92 min Scan# 546
Delta R.T. 0.01 min
Lab File: VW004499.D
Acq: 07 Aug 2018 16:27

Tgt Ion: 84 Resp: 422533
Ion Ratio Lower Upper
84 100
49 118.8 86.0 159.6
86 63.1 43.5 80.9



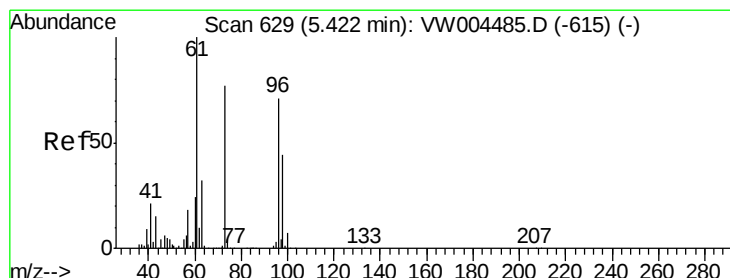
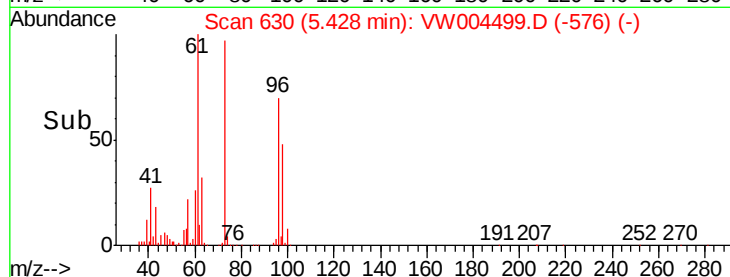
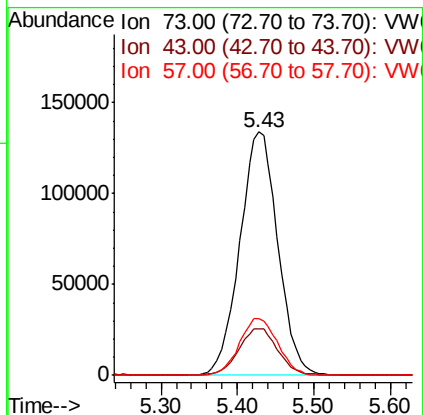
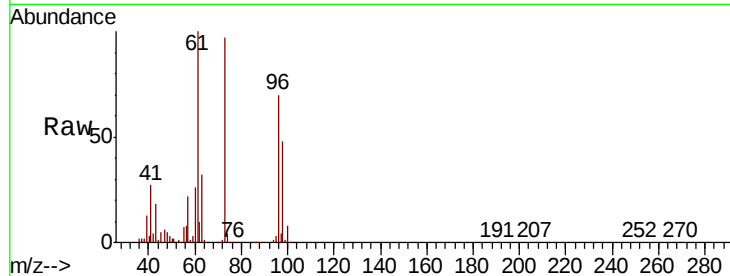


#17

Methyl tert-butyl Ether
 Concen: 25.092 ug/L
 RT: 5.43 min Scan# 630
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

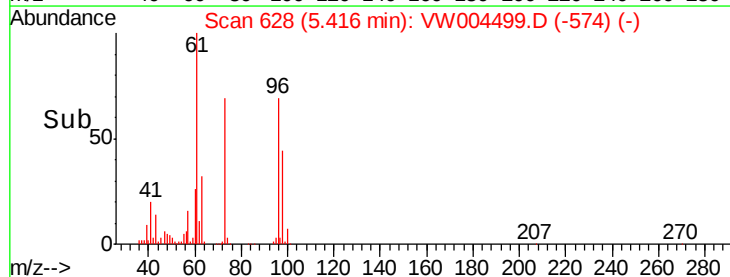
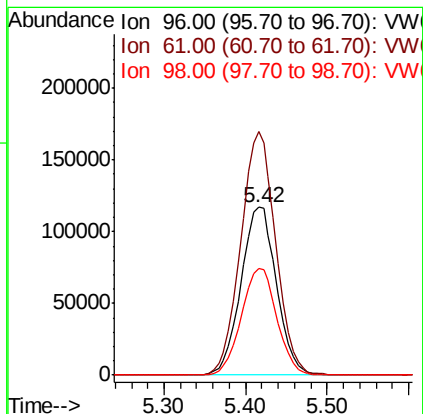
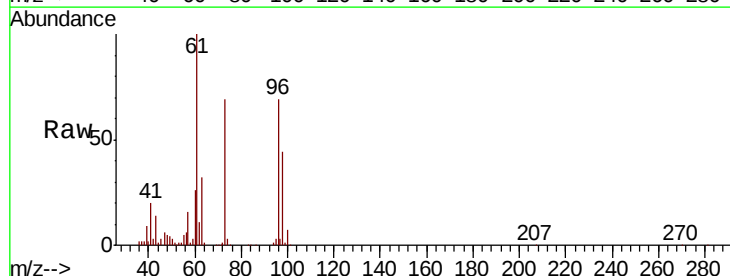
Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.7	16.2	24.2
57	23.9	18.9	28.3

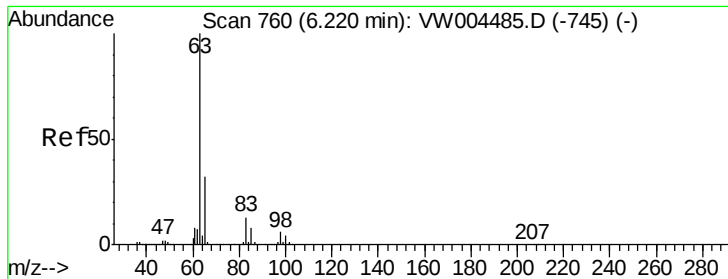


#18

trans-1,2-Dichloroethene
 Concen: 25.520 ug/L
 RT: 5.42 min Scan# 628
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion	Ratio	Lower	Upper
96	100		
61	145.2	97.9	181.7
98	63.3	43.0	79.8

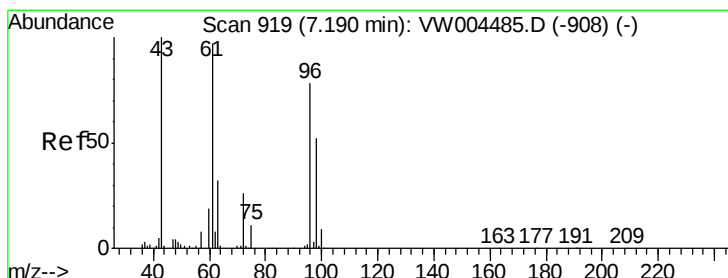
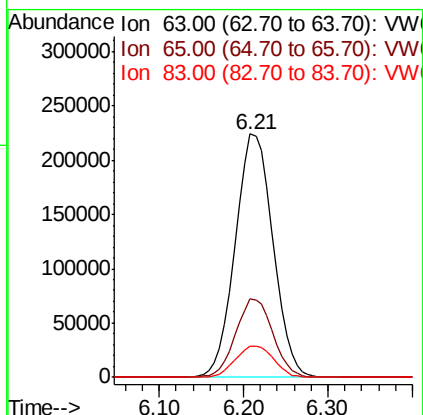
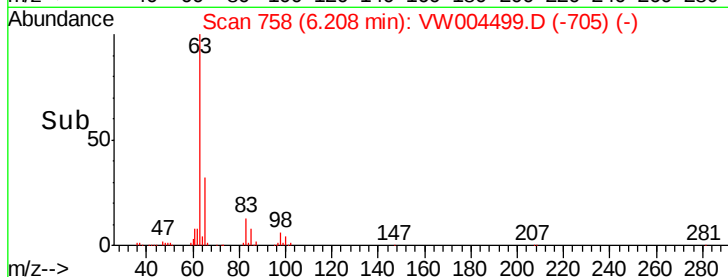
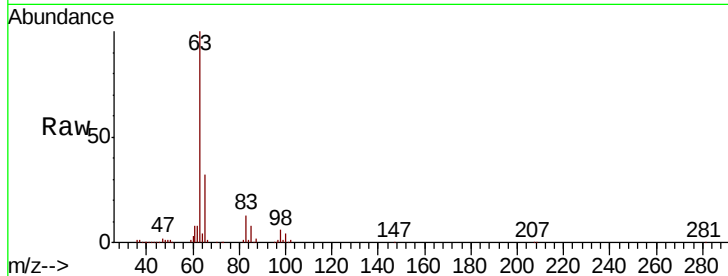




#19
 1,1-Dichloroethane
 Concen: 25.800 ug/L
 RT: 6.21 min Scan# 758
 Delta R.T. -0.01 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

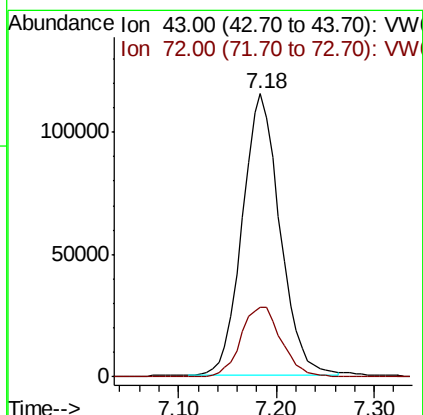
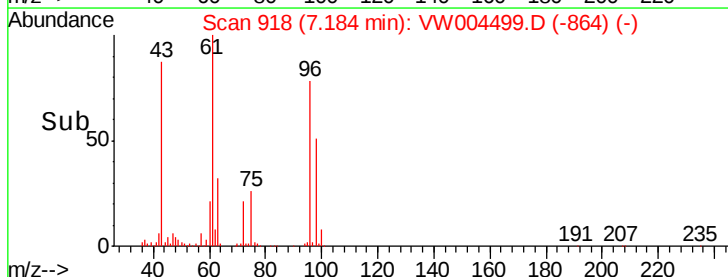
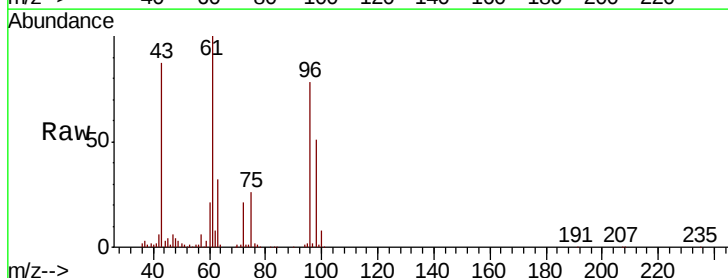
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

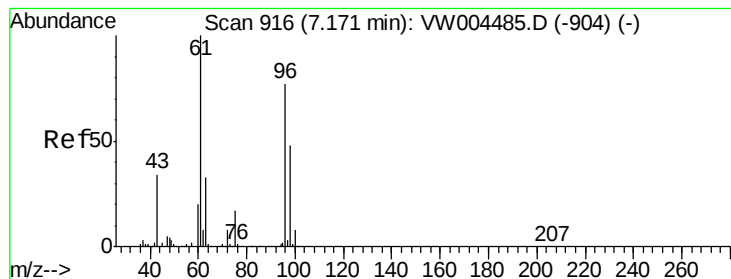
Tgt Ion: 63 Resp: 680332
 Ion Ratio Lower Upper
 63 100
 65 32.1 22.5 41.7
 83 12.5 9.3 17.3



#21
 2-Butanone
 Concen: 48.500 ug/L
 RT: 7.18 min Scan# 918
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion: 43 Resp: 309113
 Ion Ratio Lower Upper
 43 100
 72 26.7 13.2 39.6



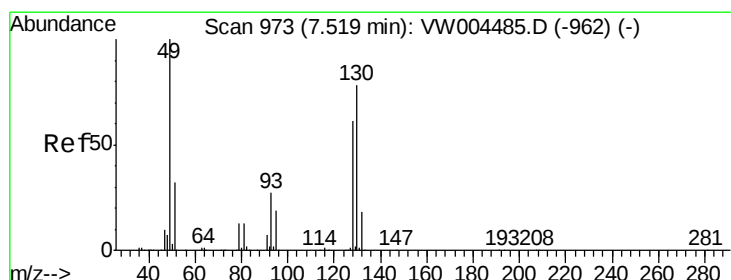
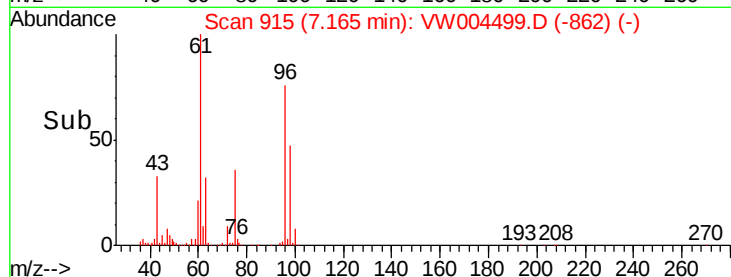
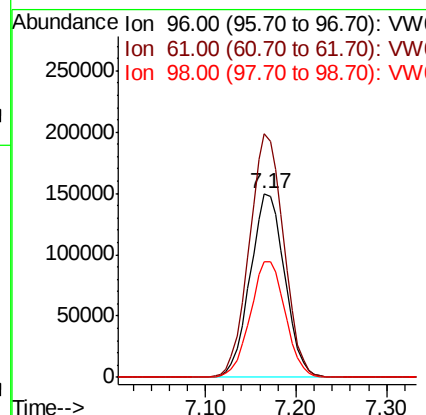
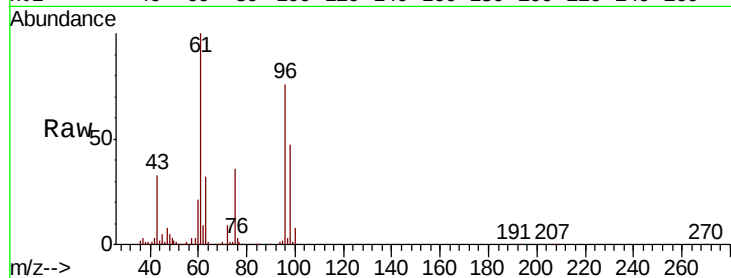


#22

cis-1,2-Dichloroethene
 Concen: 26.087 ug/L
 RT: 7.17 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

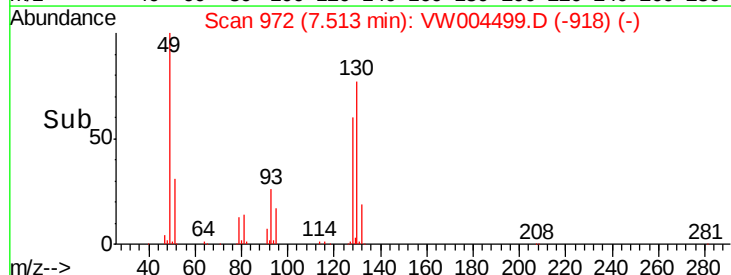
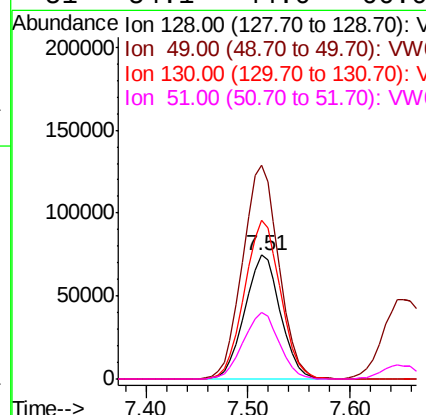
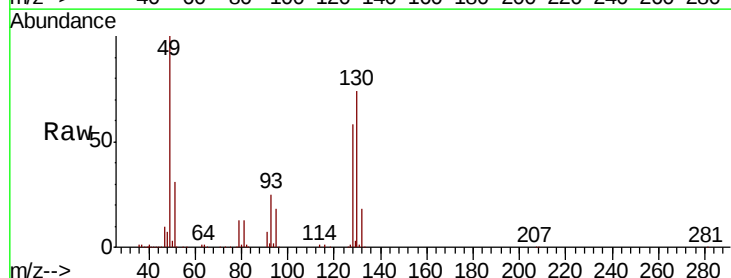
Tgt Ion	Ratio	Lower	Upper
96	100		
61	132.3	92.5	171.7
98	62.7	44.1	81.9

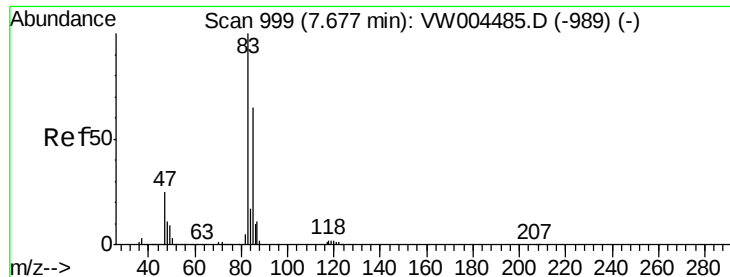


#23

Bromochloromethane
 Concen: 24.997 ug/L
 RT: 7.51 min Scan# 972
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion	Ratio	Lower	Upper
128	100		
49	172.4	122.0	226.6
130	128.4	88.8	164.8
51	54.1	44.0	66.0





#25

Chloroform

Concen: 25.725 ug/L

RT: 7.68 min Scan# 999

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

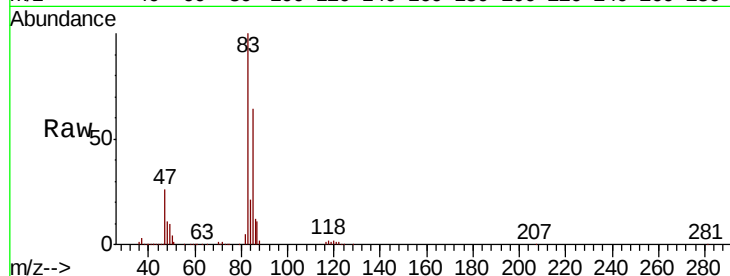
VSTD02582

Tgt Ion: 83 Resp: 692400

Ion Ratio Lower Upper

83 100

85 65.2 45.7 84.9



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

7.68

300000

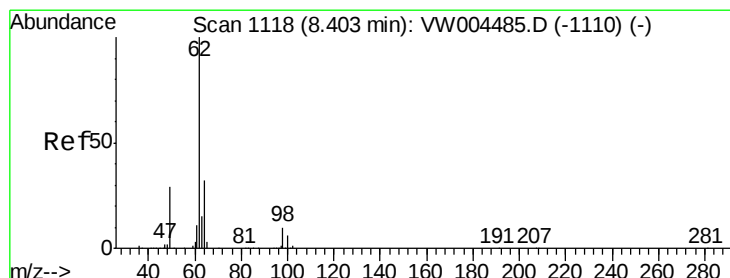
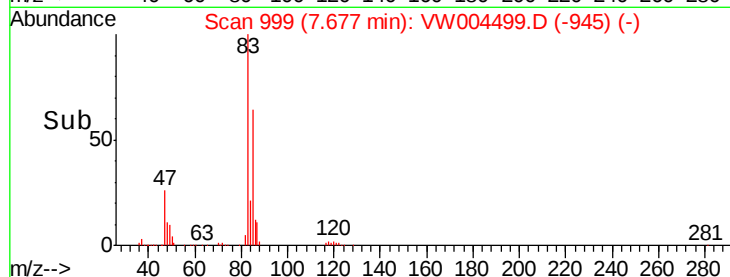
200000

100000

0

Time-->

7.60 7.70 7.80



#27

1,2-Dichloroethane

Concen: 24.910 ug/L

RT: 8.40 min Scan# 1118

Delta R.T. -0.00 min

Lab File: VW004499.D

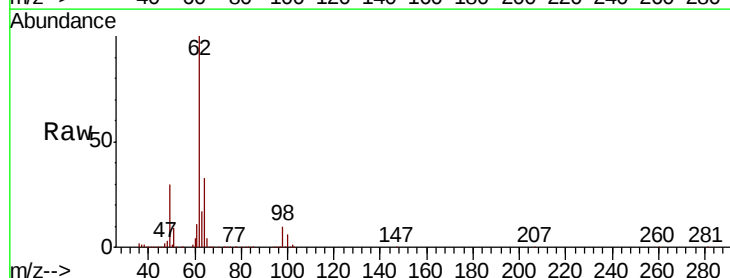
Acq: 07 Aug 2018 16:27

Tgt Ion: 62 Resp: 450434

Ion Ratio Lower Upper

62 100

98 9.7 7.6 11.4



Abundance Ion 62.00 (61.70 to 62.70): VW

Ion 98.00 (97.70 to 98.70): VW

250000

200000

150000

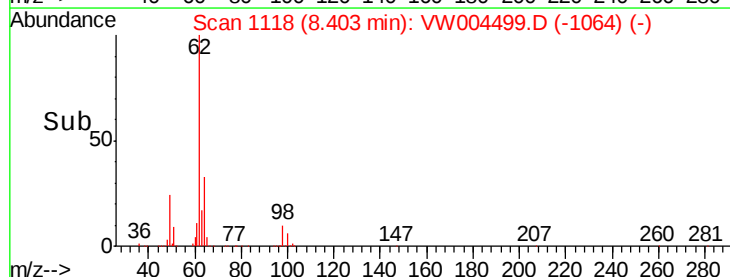
100000

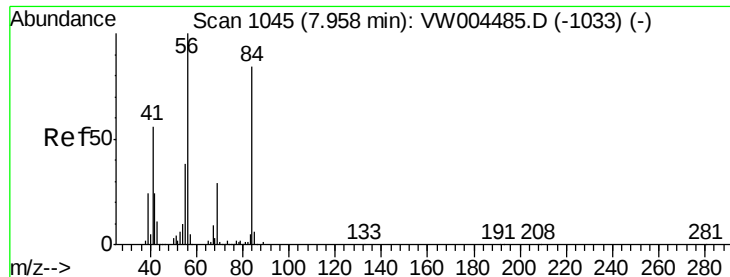
50000

0

Time-->

8.30 8.35 8.40 8.45 8.50

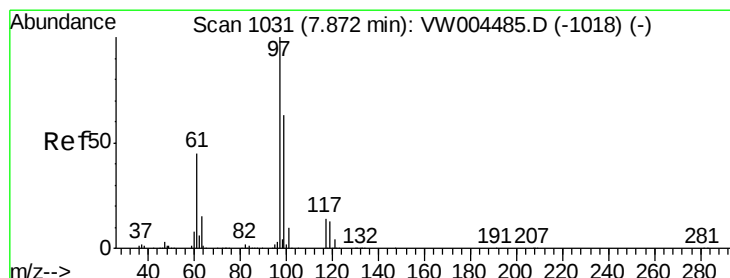
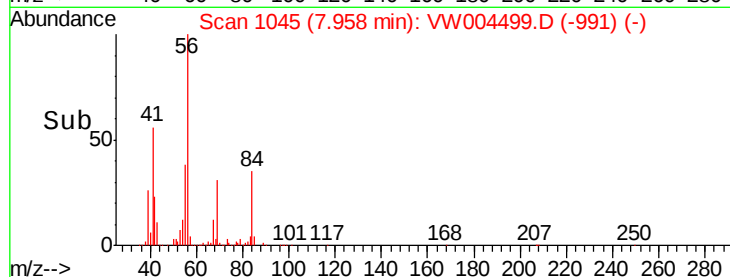
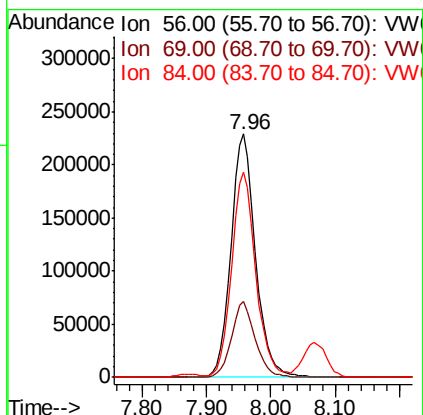
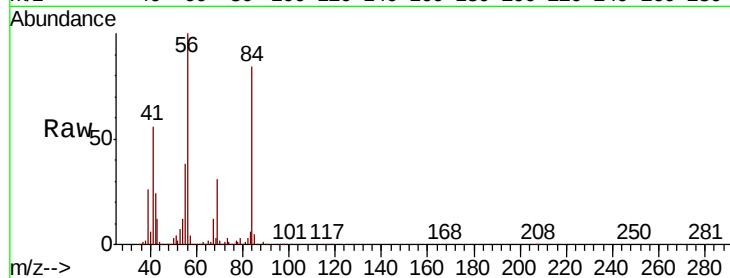




#30
Cyclohexane
Concen: 27.100 ug/L
RT: 7.96 min Scan# 1045
Delta R.T. -0.00 min
Lab File: VW004499.D
Acq: 07 Aug 2018 16:27

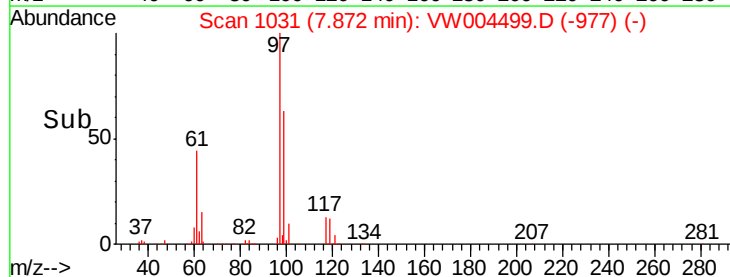
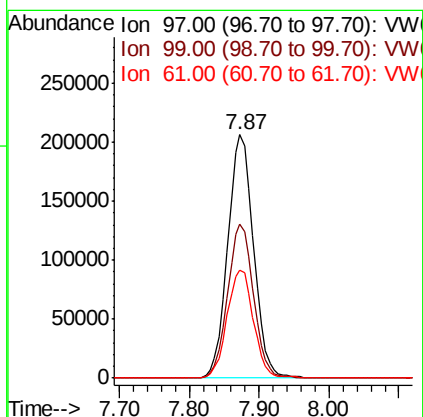
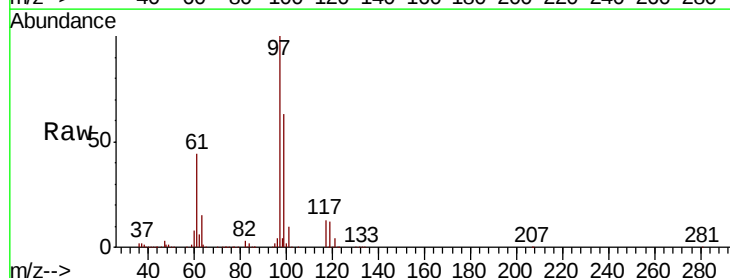
Instrument :
MSVOA_W
ClientSampleId :
VSTD02582

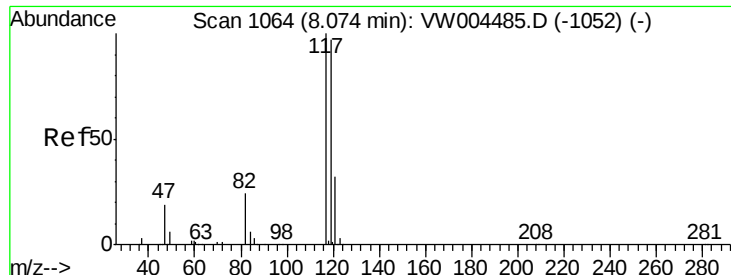
Tgt Ion: 56 Resp: 607847
Ion Ratio Lower Upper
56 100
69 30.0 24.0 36.0
84 83.4 66.7 100.1



#31
1,1,1-Trichloroethane
Concen: 26.220 ug/L
RT: 7.87 min Scan# 1031
Delta R.T. -0.00 min
Lab File: VW004499.D
Acq: 07 Aug 2018 16:27

Tgt Ion: 97 Resp: 528344
Ion Ratio Lower Upper
97 100
99 63.6 51.8 77.6
61 45.4 37.3 55.9





#32

Carbon tetrachloride

Concen: 25.628 ug/L

RT: 8.07 min Scan# 1063

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

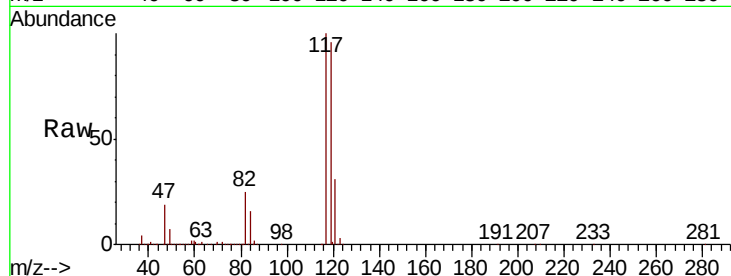
VSTD02582

Tgt Ion:117 Resp: 497690

Ion Ratio Lower Upper

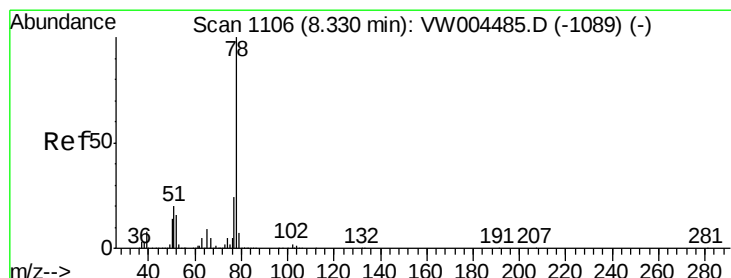
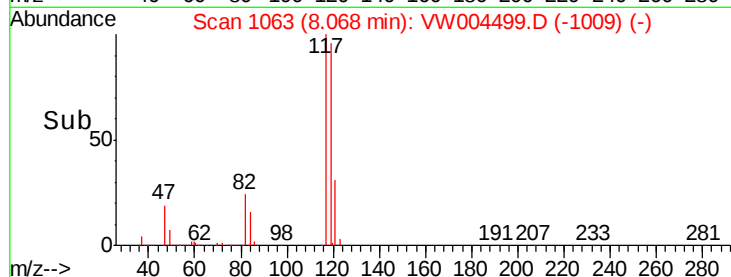
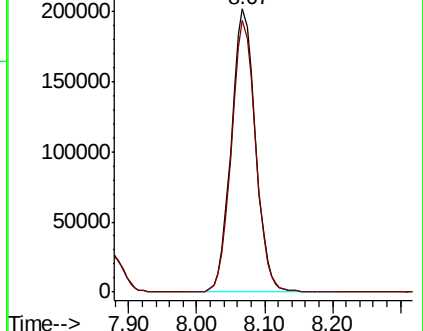
117 100

119 96.1 76.5 114.7



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 26.366 ug/L

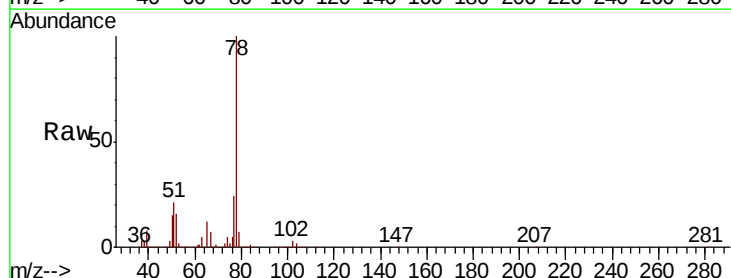
RT: 8.32 min Scan# 1105

Delta R.T. -0.00 min

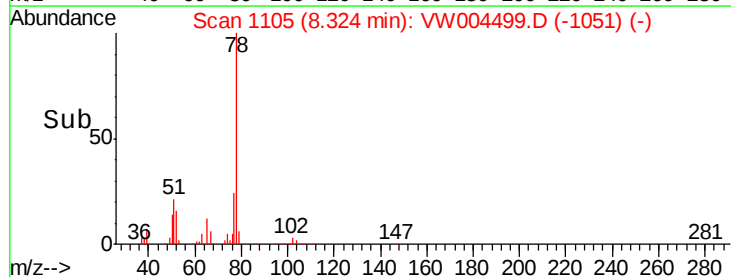
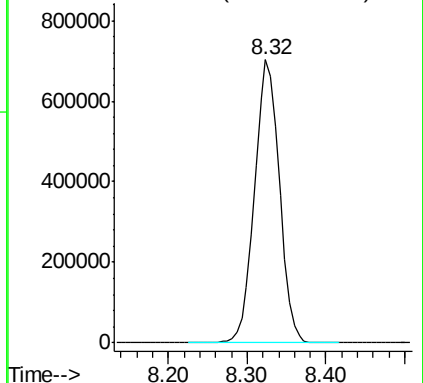
Lab File: VW004499.D

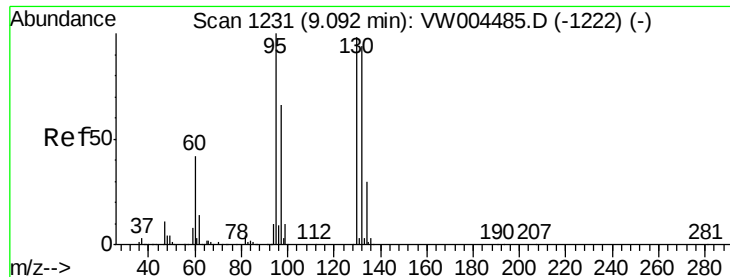
Acq: 07 Aug 2018 16:27

Tgt Ion: 78 Resp: 1541761



Abundance Ion 78.00 (77.70 to 78.70): VW

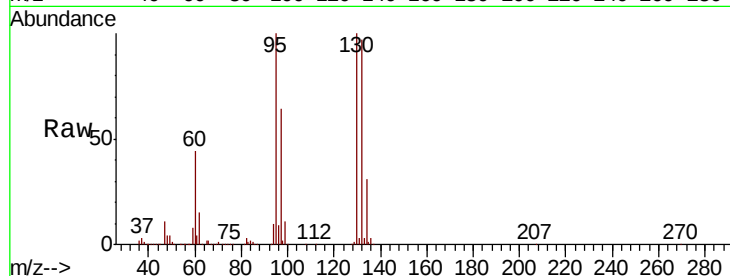




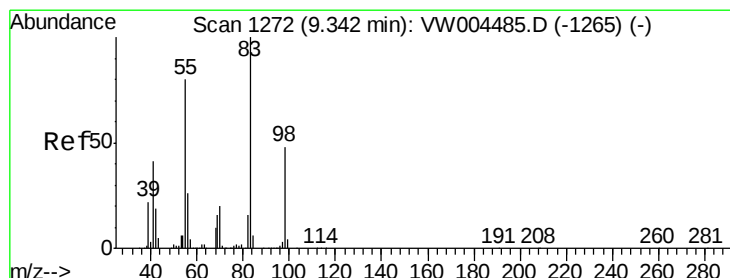
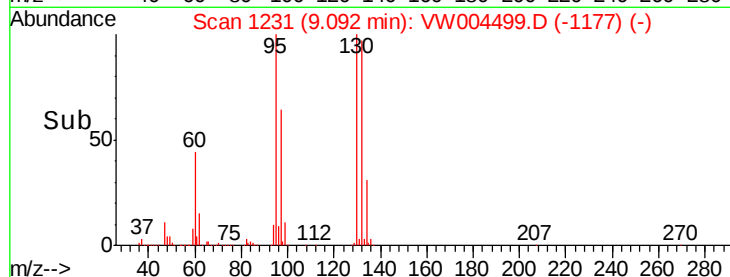
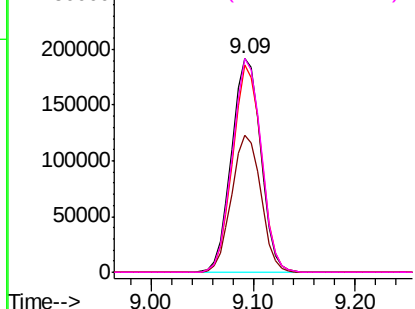
#35
 Trichloroethene
 Concen: 25.837 ug/L
 RT: 9.09 min Scan# 1231
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

Tgt Ion:	95	Resp:	380026
Ion	Ratio	Lower	Upper
95	100		
97	64.1	44.9	83.5
132	94.9	67.6	125.6
130	98.2	69.1	128.3

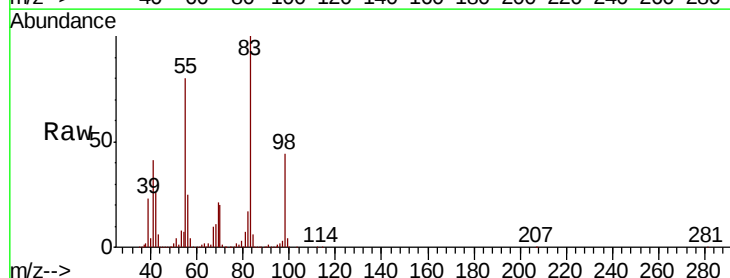


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

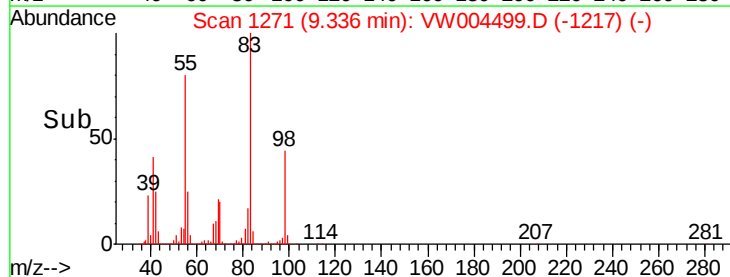
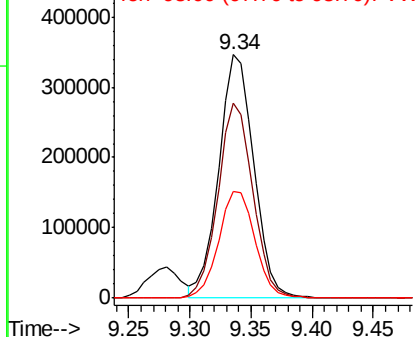


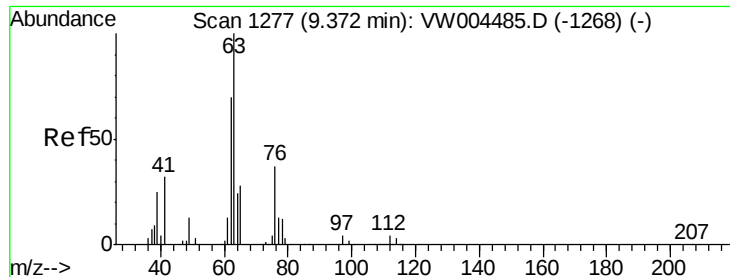
#36
 Methylcyclohexane
 Concen: 26.719 ug/L
 RT: 9.34 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion:	83	Resp:	689881
Ion	Ratio	Lower	Upper
83	100		
55	79.8	62.8	94.2
98	45.3	36.6	54.8



Abundance Ion 83.00 (82.70 to 83.70): VW
 Ion 55.00 (54.70 to 55.70): VW
 Ion 98.00 (97.70 to 98.70): VW

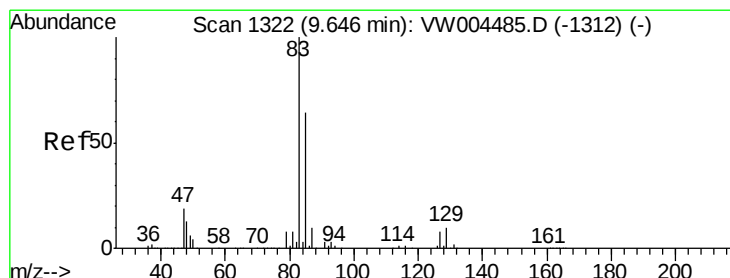
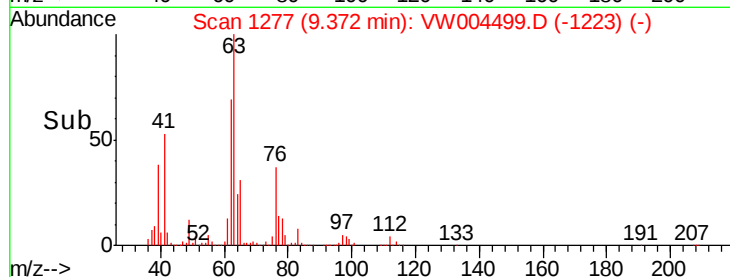
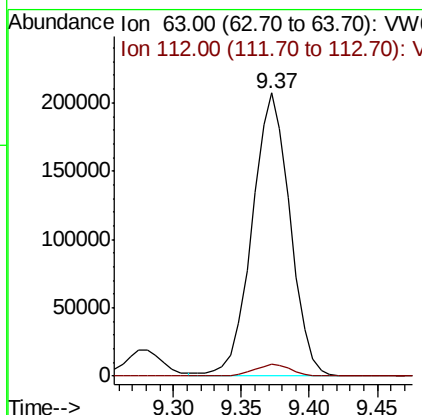
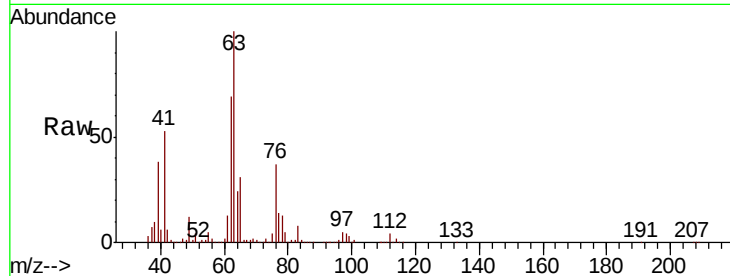




#40
 1,2-Dichloropropane
 Concen: 26.177 ug/L
 RT: 9.37 min Scan# 1277
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

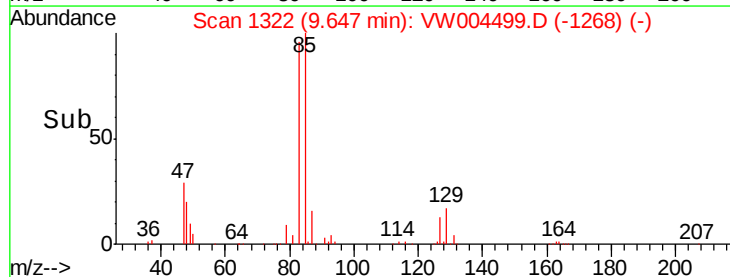
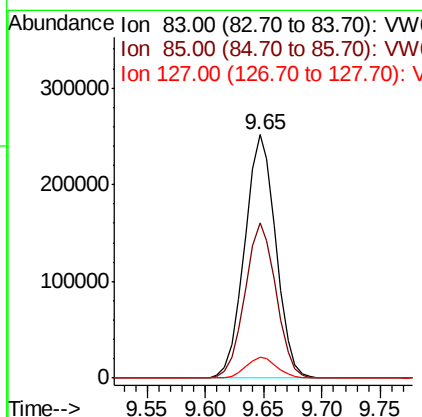
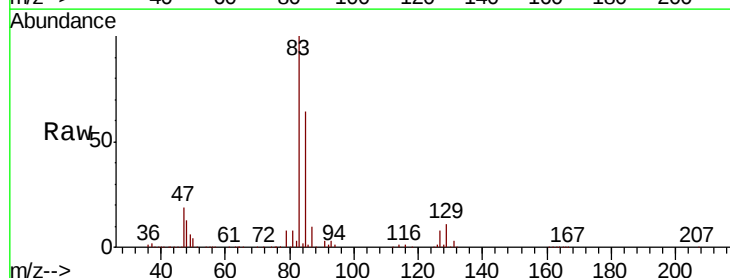
Instrument :
 MSVOA_W
 ClientSampled :
 VSTD02582

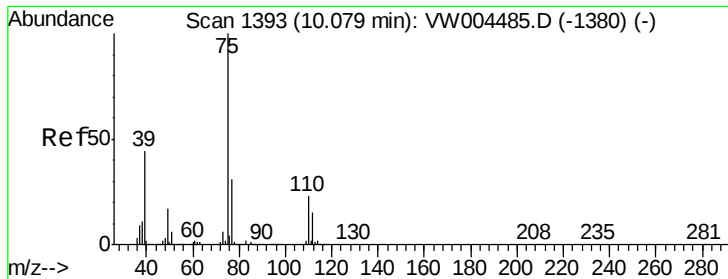
Tgt Ion: 63 Resp: 405407
 Ion Ratio Lower Upper
 63 100
 112 4.1 3.0 4.6



#41
 Bromodichloromethane
 Concen: 25.224 ug/L
 RT: 9.65 min Scan# 1322
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion: 83 Resp: 469257
 Ion Ratio Lower Upper
 83 100
 85 63.9 43.7 81.1
 127 8.5 6.6 10.0





#42

cis-1,3-Dichloropropene

Concen: 25.586 ug/L

RT: 10.08 min Scan# 1393

Delta R.T. 0.01 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

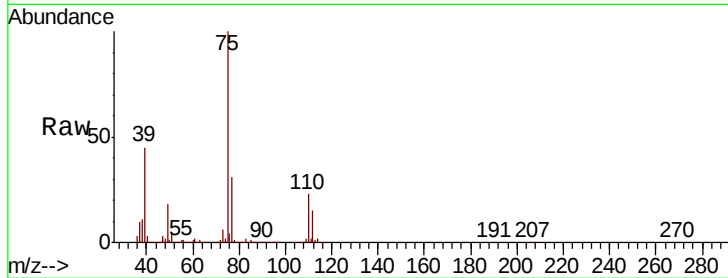
VSTD02582

Tgt Ion: 75 Resp: 542074

Ion Ratio Lower Upper

75 100

77 31.1 22.5 41.7



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.08

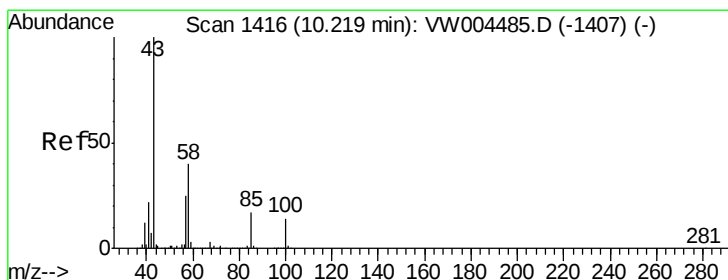
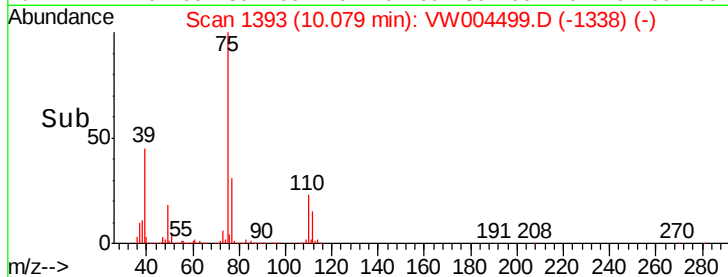
300000

200000

100000

0

Time-->



#43

4-Methyl-2-pentanone

Concen: 48.671 ug/L

RT: 10.21 min Scan# 1415

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

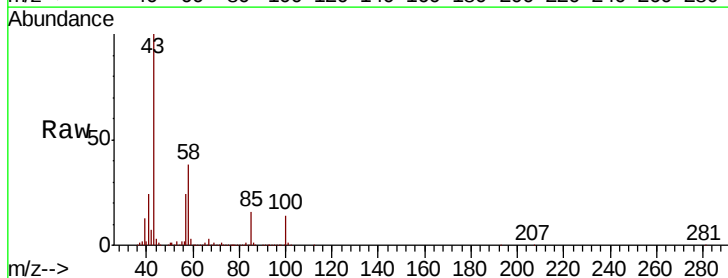
Tgt Ion: 43 Resp: 565184

Ion Ratio Lower Upper

43 100

58 38.3 31.5 47.3

100 14.3 11.7 17.5



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 100.00 (99.70 to 100.70): VW

500000

400000

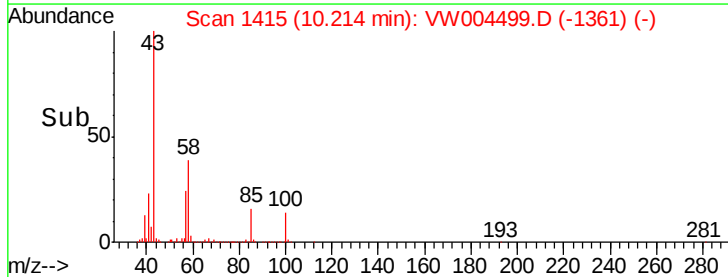
300000

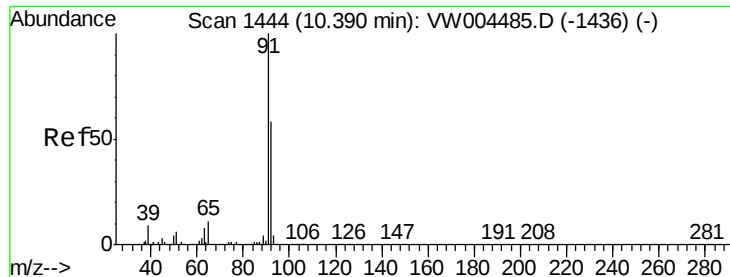
200000

100000

0

Time-->





#44

Toluene

Concen: 26.805 ug/L

RT: 10.39 min Scan# 1444

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

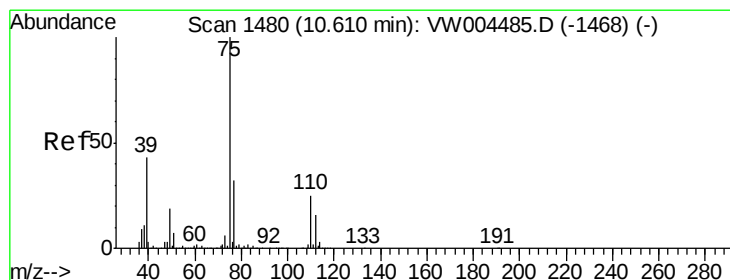
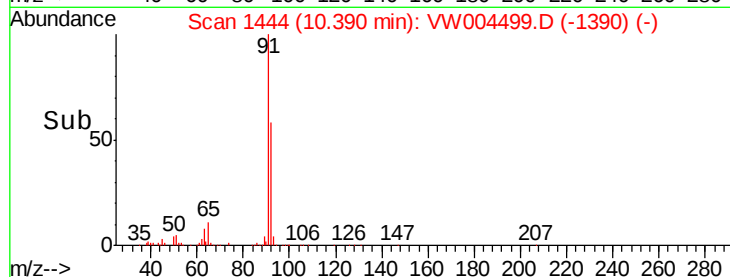
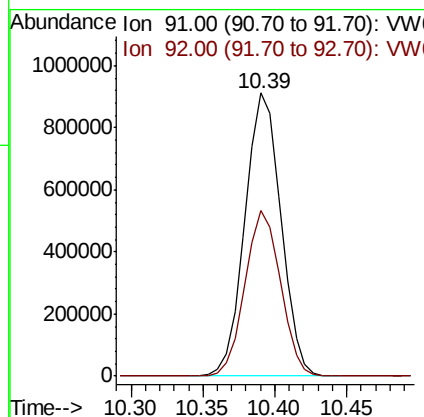
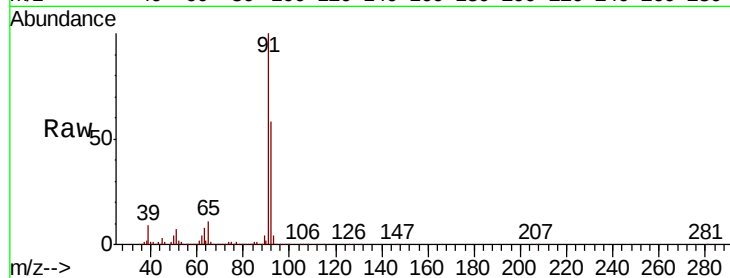
VSTD02582

Tgt Ion: 91 Resp: 1577346

Ion Ratio Lower Upper

91 100

92 58.3 40.8 75.8



#45

trans-1,3-Dichloropropene

Concen: 25.748 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. -0.00 min

Lab File: VW004499.D

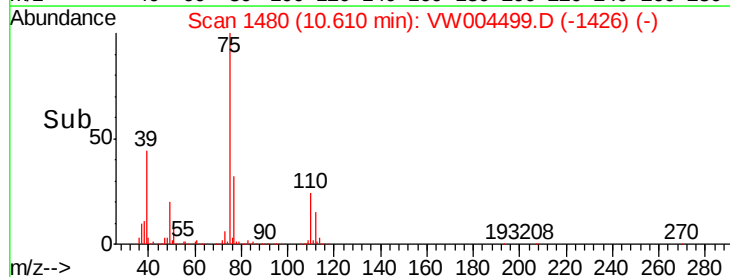
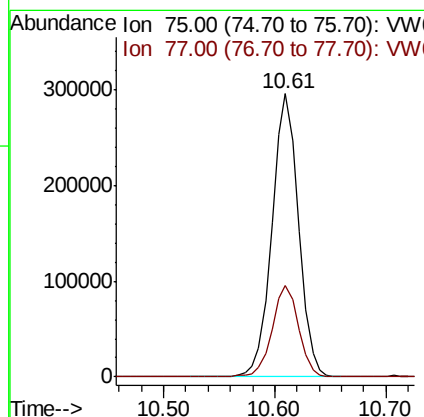
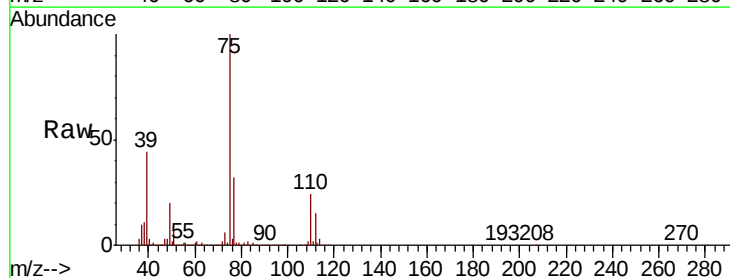
Acq: 07 Aug 2018 16:27

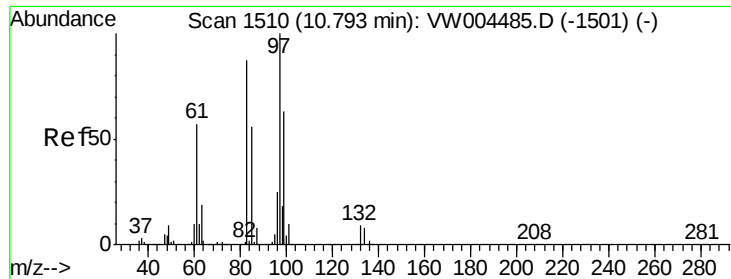
Tgt Ion: 75 Resp: 490355

Ion Ratio Lower Upper

75 100

77 32.2 21.8 40.6





#46

1,1,2-Trichloroethane

Concen: 25.225 ug/L

RT: 10.79 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

Tgt Ion: 97 Resp: 303713

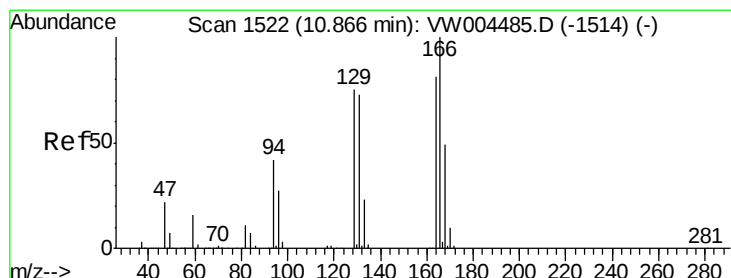
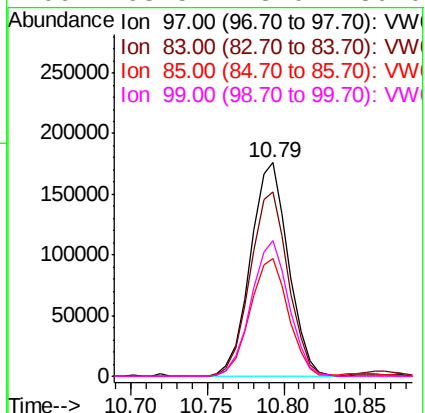
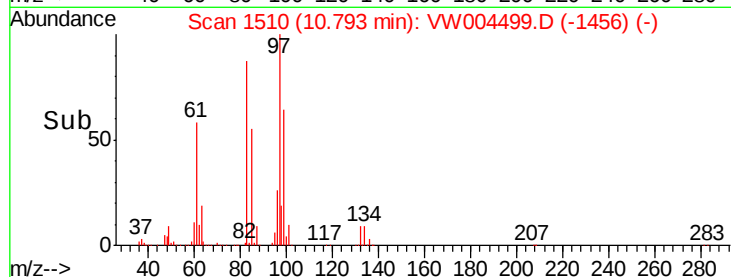
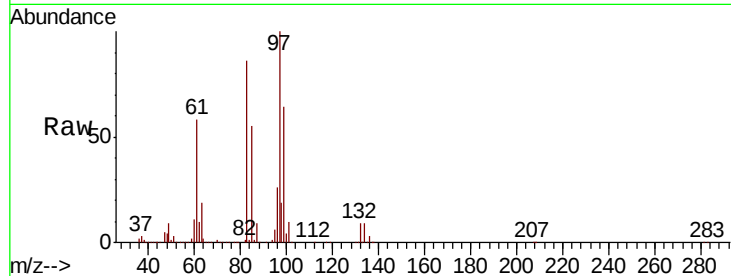
Ion Ratio Lower Upper

97 100

83 86.5 61.8 114.8

85 55.0 38.8 72.0

99 63.5 43.0 80.0



#47

Tetrachloroethene

Concen: 25.892 ug/L

RT: 10.87 min Scan# 1522

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Tgt Ion: 164 Resp: 301323

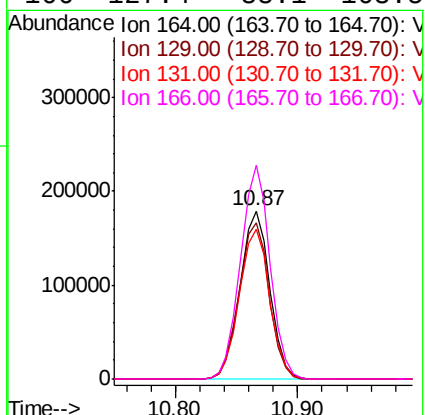
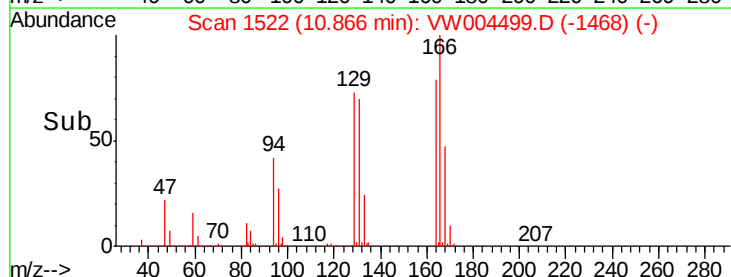
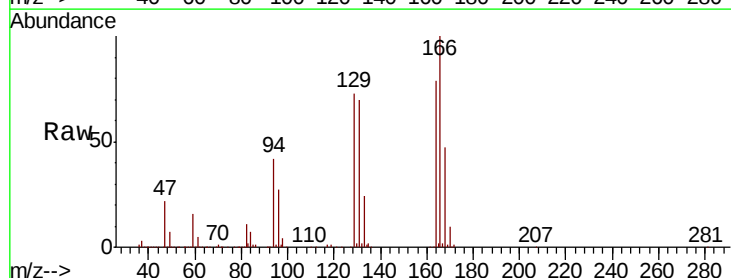
Ion Ratio Lower Upper

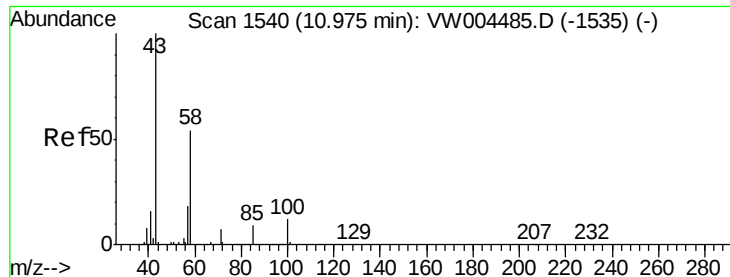
164 100

129 93.0 65.4 121.4

131 89.6 63.8 118.6

166 127.4 88.1 163.5





#49

2-Hexanone

Concen: 50.010 ug/L

RT: 10.98 min Scan# 1540

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

Tgt Ion: 43 Resp: 436411

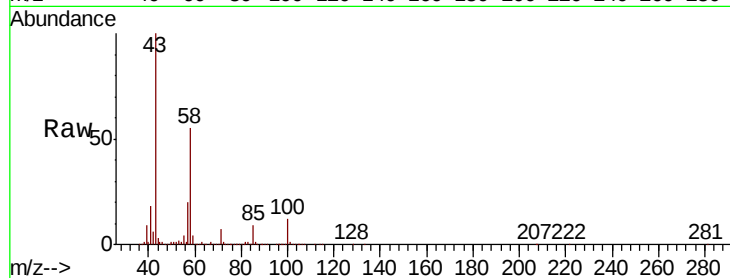
Ion Ratio Lower Upper

43 100

58 56.2 43.4 65.0

57 19.7 15.0 22.6

100 11.7 8.9 13.3



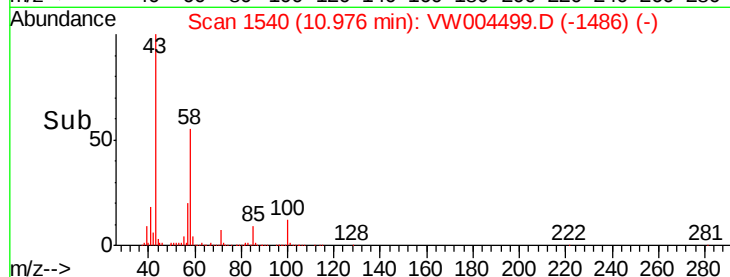
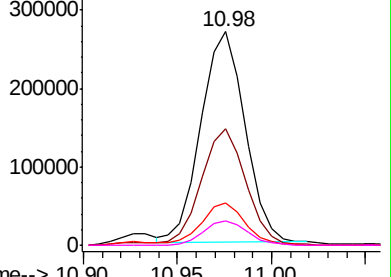
Abundance

Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW

Ion 57.00 (56.70 to 57.70): VW

Ion 100.00 (99.70 to 100.70): VW



#50

Dibromochloromethane

Concen: 25.222 ug/L

RT: 11.13 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VW004499.D

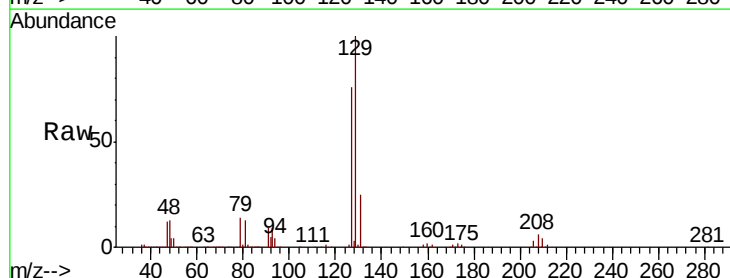
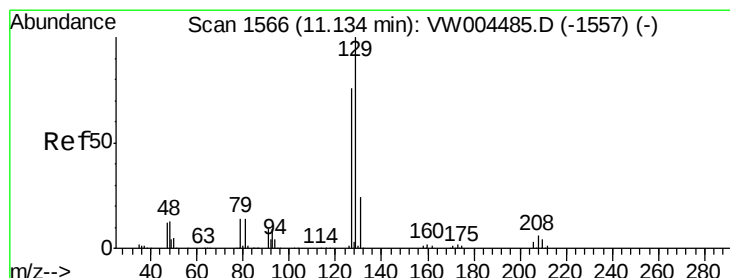
Acq: 07 Aug 2018 16:27

Tgt Ion: 129 Resp: 336876

Ion Ratio Lower Upper

129 100

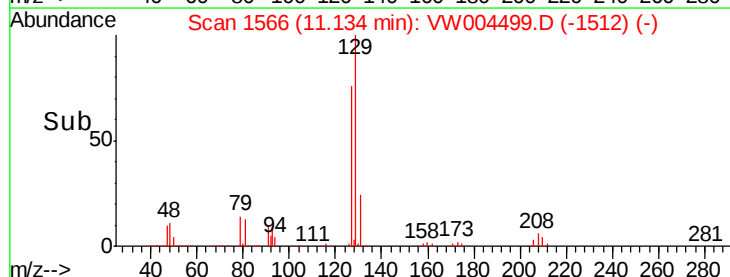
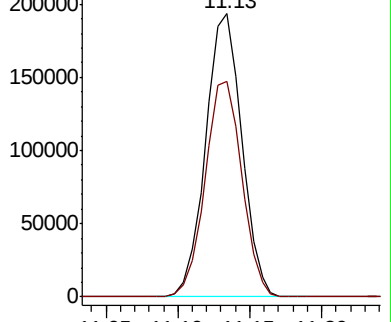
127 76.2 54.1 100.5

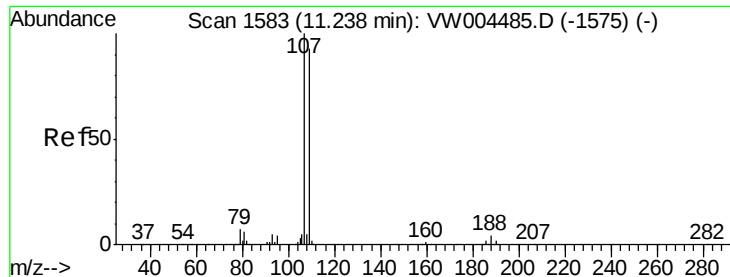


Abundance

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V





#51

1,2-Dibromoethane

Concen: 24.812 ug/L

RT: 11.24 min Scan# 1583

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

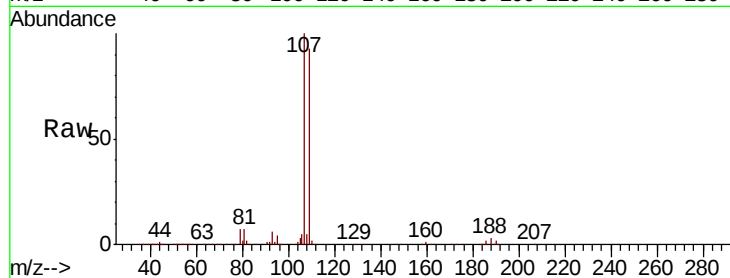
Tgt Ion:107 Resp: 286361

Ion Ratio Lower Upper

107 100

109 93.3 66.8 124.2

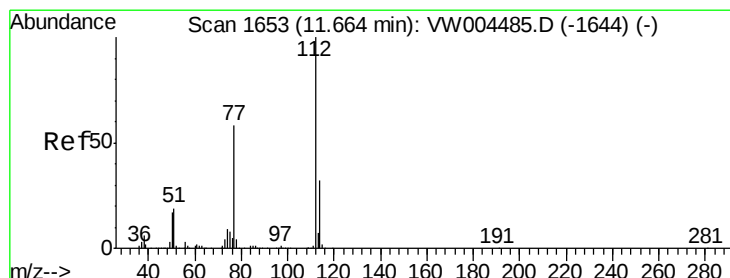
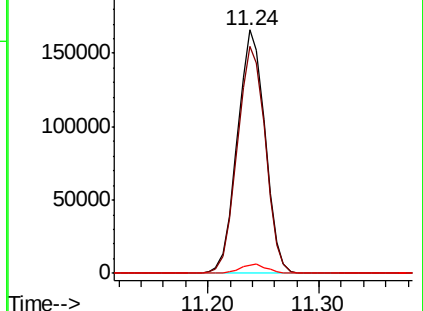
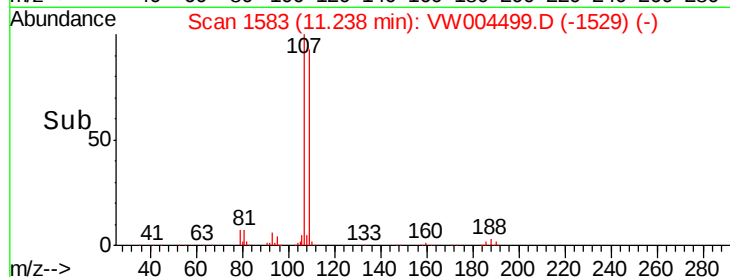
188 3.1 2.6 3.8



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#52

Chlorobenzene

Concen: 25.769 ug/L

RT: 11.66 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

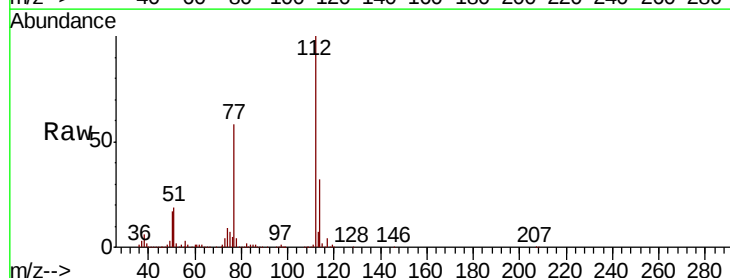
Tgt Ion:112 Resp: 1025522

Ion Ratio Lower Upper

112 100

77 57.7 46.5 69.7

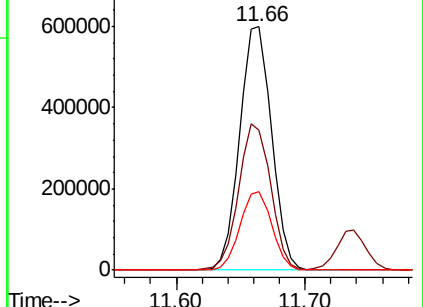
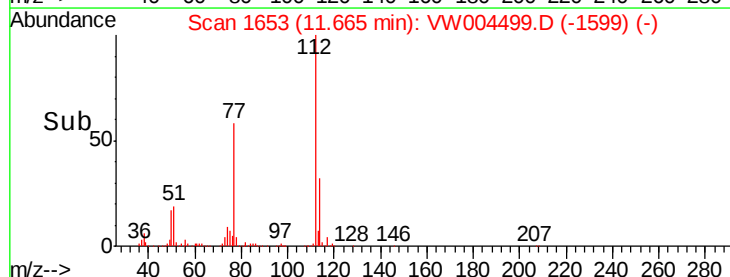
114 32.1 22.0 41.0

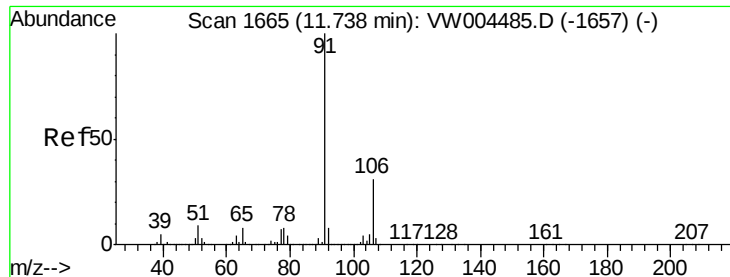


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 77.00 (76.70 to 77.70): V

Ion 114.00 (113.70 to 114.70): V





#53

Ethylbenzene

Concen: 26.964 ug/L

RT: 11.74 min Scan# 1665

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

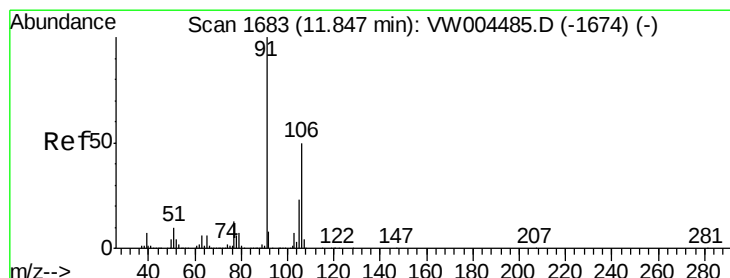
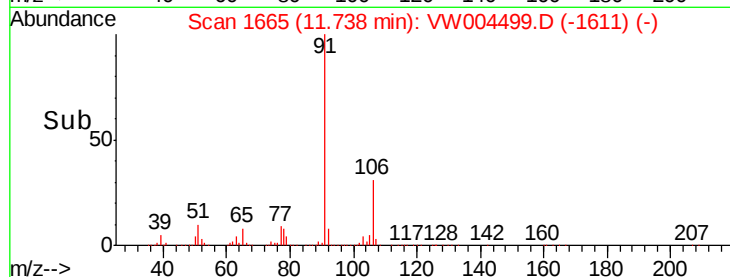
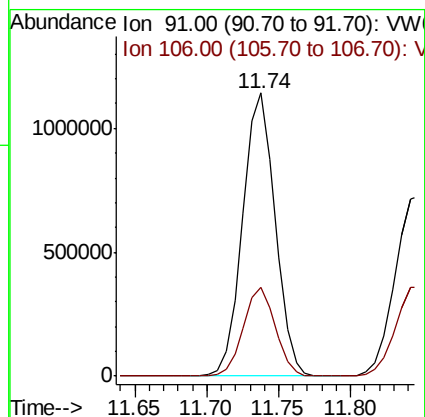
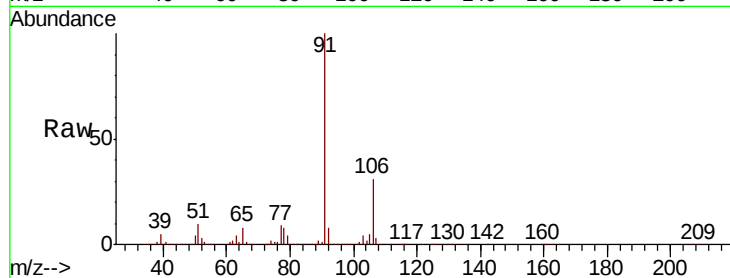
VSTD02582

Tgt Ion: 91 Resp: 1783044

Ion Ratio Lower Upper

91 100

106 31.2 21.6 40.0



#54

m,p-Xylene

Concen: 27.501 ug/L

RT: 11.84 min Scan# 1682

Delta R.T. -0.01 min

Lab File: VW004499.D

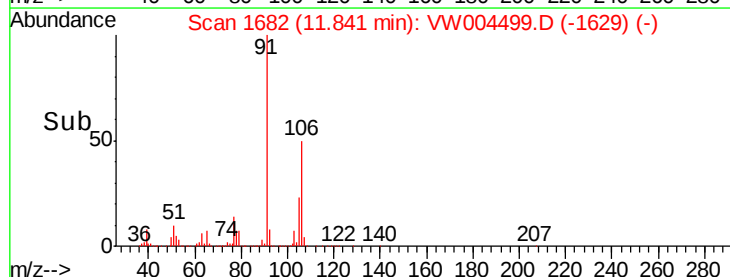
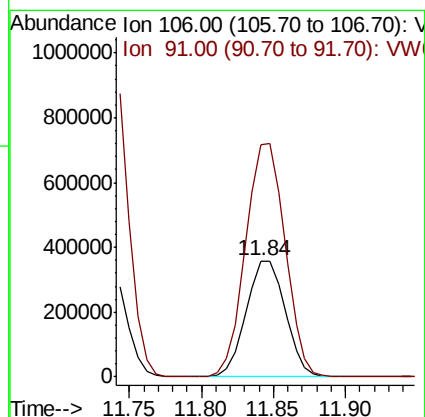
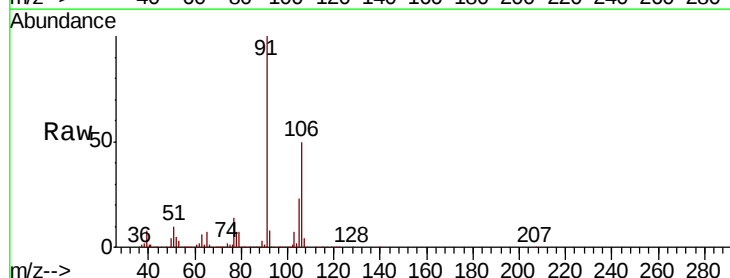
Acq: 07 Aug 2018 16:27

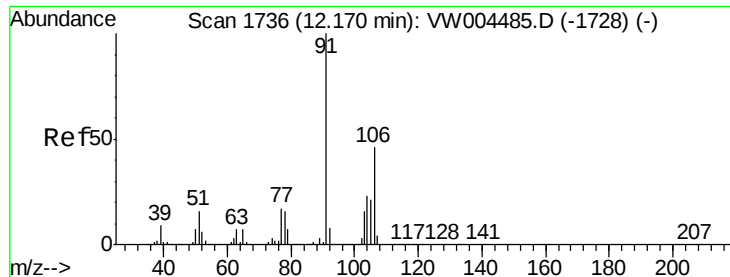
Tgt Ion: 106 Resp: 678472

Ion Ratio Lower Upper

106 100

91 199.4 143.0 265.6





#55

o-xylene

Concen: 27.439 ug/L

RT: 12.17 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

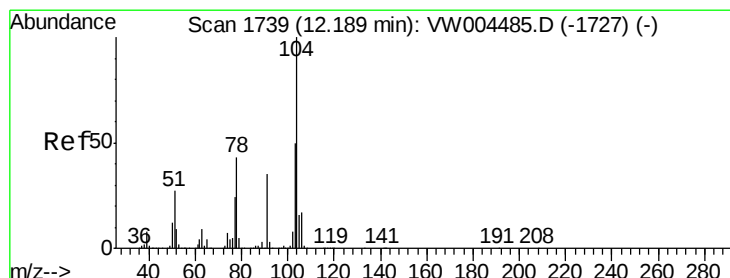
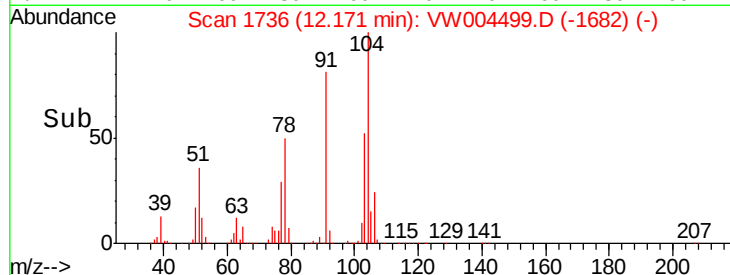
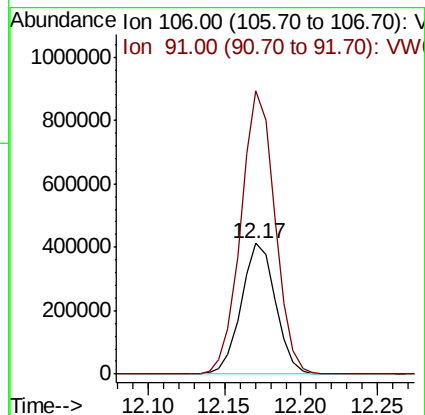
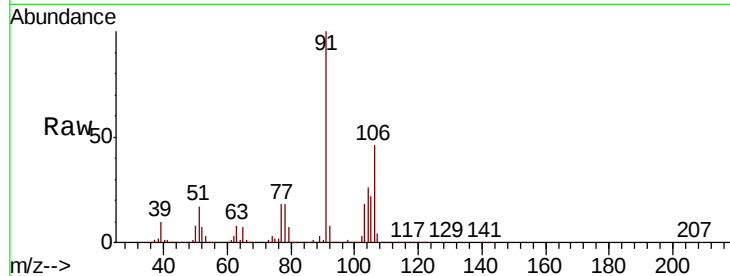
VSTD02582

Tgt Ion:106 Resp: 641427

Ion Ratio Lower Upper

106 100

91 216.7 152.0 282.4



#56

Styrene

Concen: 28.307 ug/L

RT: 12.19 min Scan# 1739

Delta R.T. -0.00 min

Lab File: VW004499.D

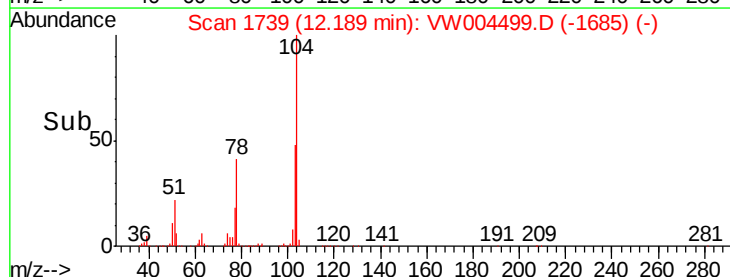
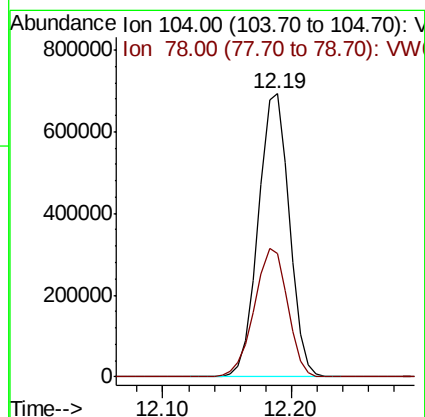
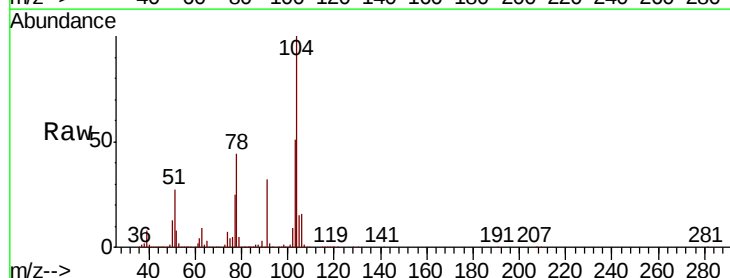
Acq: 07 Aug 2018 16:27

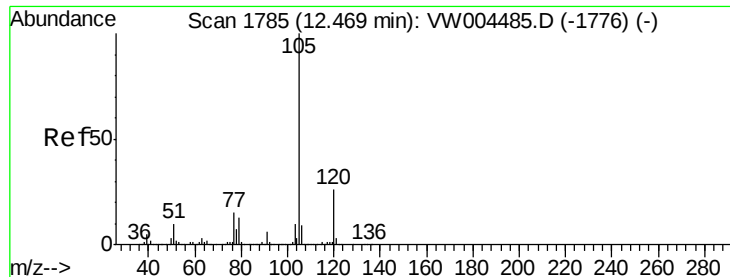
Tgt Ion:104 Resp: 1153036

Ion Ratio Lower Upper

104 100

78 43.6 30.8 57.2





#57

Isopropylbenzene

Concen: 28.096 ug/L

RT: 12.47 min Scan# 1785

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

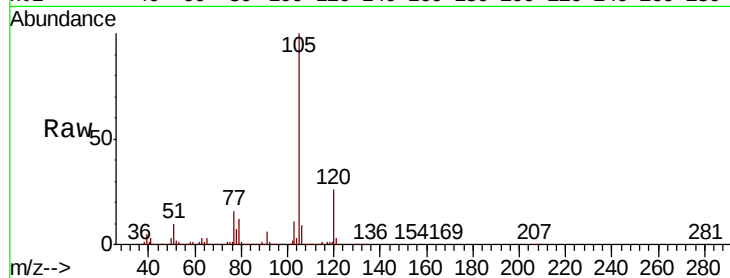
Tgt Ion:105 Resp: 1777770

Ion Ratio Lower Upper

105 100

120 26.2 21.0 31.4

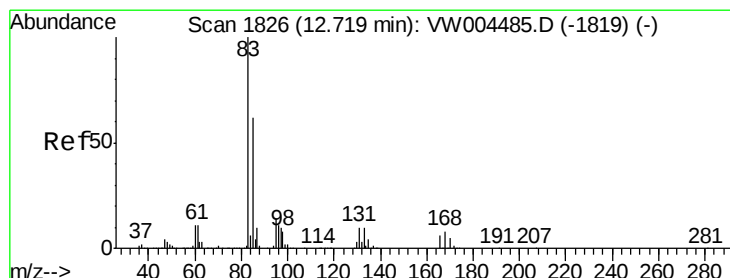
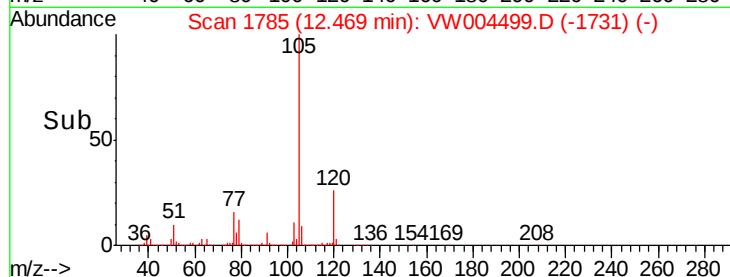
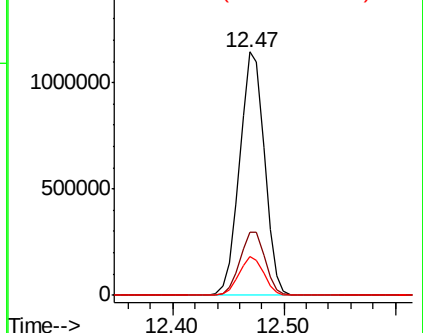
77 15.6 12.4 18.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 24.399 ug/L

RT: 12.72 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

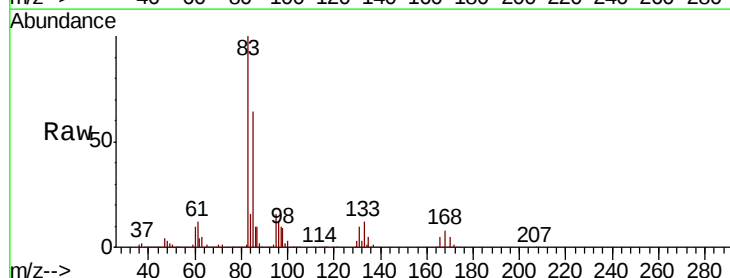
Tgt Ion: 83 Resp: 426363

Ion Ratio Lower Upper

83 100

85 63.9 46.1 85.5

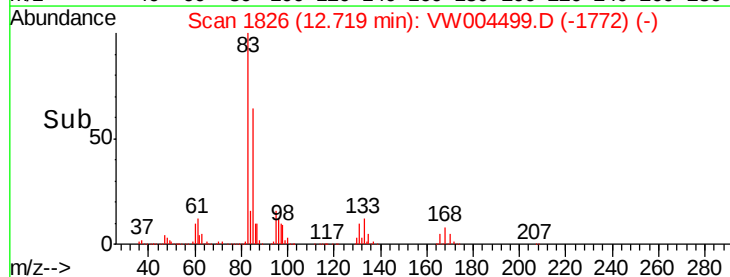
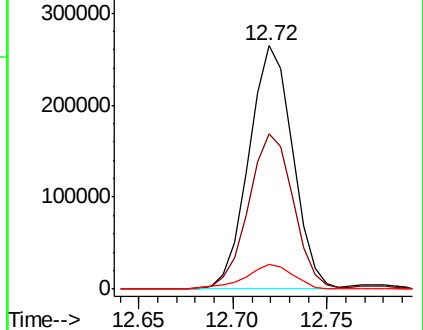
131 10.2 8.1 12.1

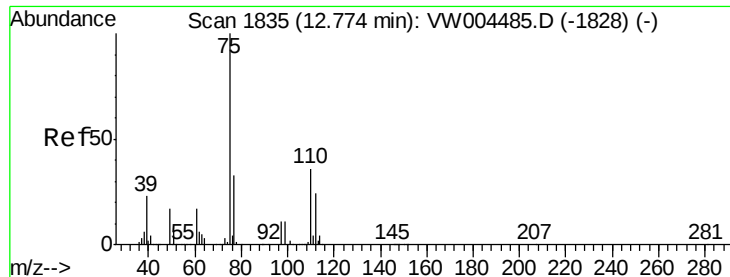


Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 24.167 ug/L

RT: 12.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

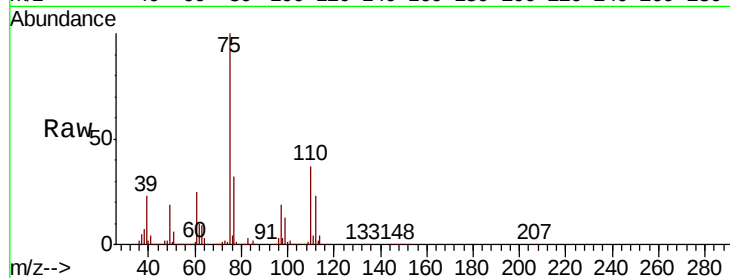
VSTD02582

Tgt Ion: 75 Resp: 315413

Ion Ratio Lower Upper

75 100

77 32.2 25.3 37.9



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

12.77

200000

150000

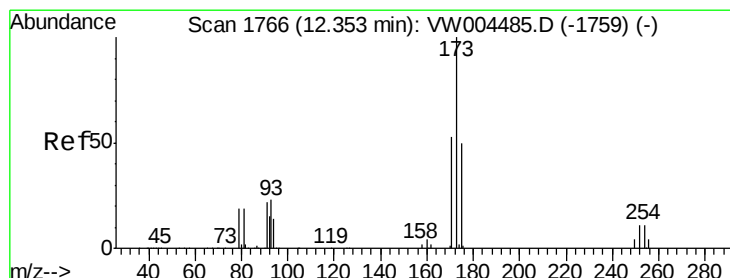
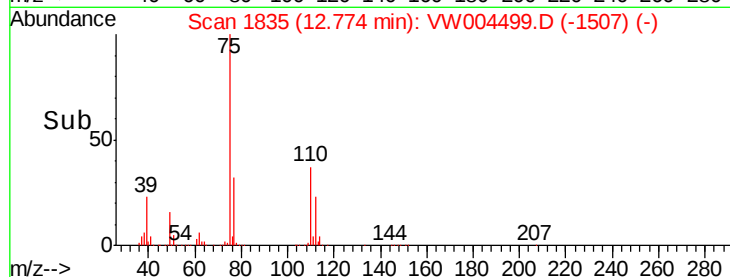
100000

50000

0

Time-->

12.70 12.75 12.80 12.85



#62

Bromoform

Concen: 23.583 ug/L

RT: 12.35 min Scan# 1766

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

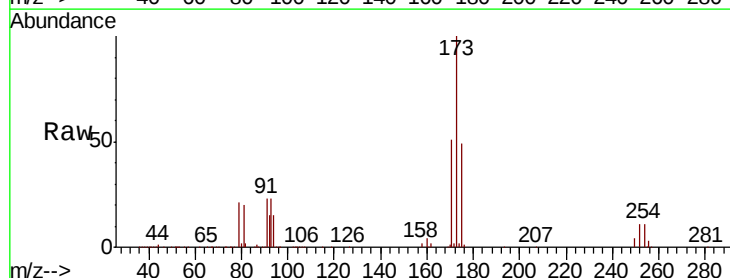
Tgt Ion: 173 Resp: 212448

Ion Ratio Lower Upper

173 100

175 49.2 39.0 58.4

254 10.5 8.1 12.1



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

12.35

150000

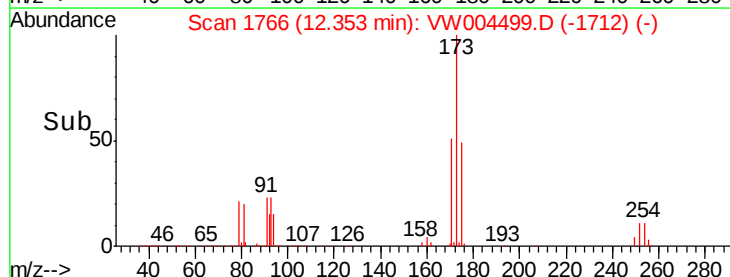
100000

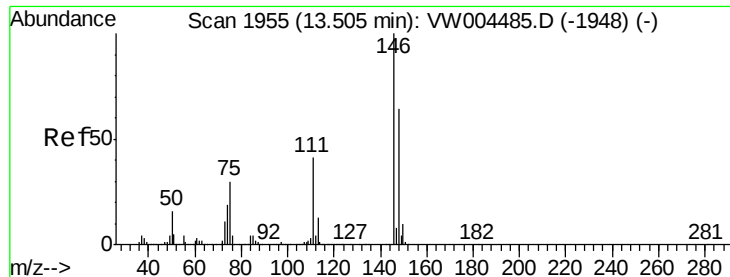
50000

0

Time-->

12.30 12.35 12.40

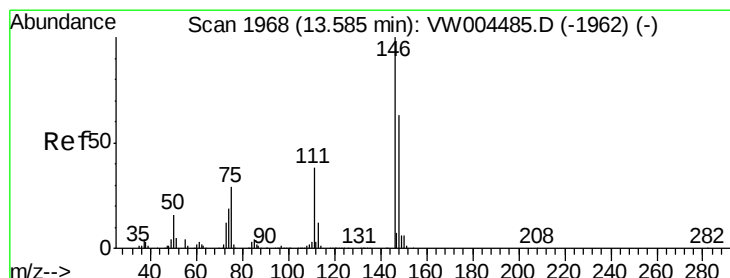
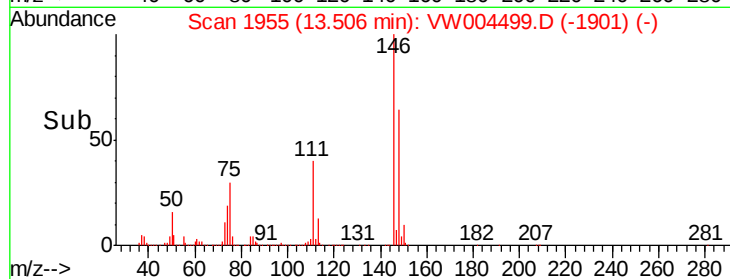
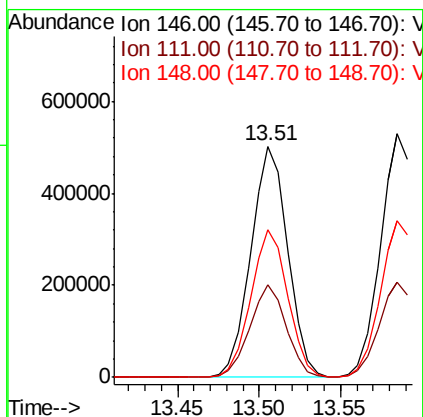
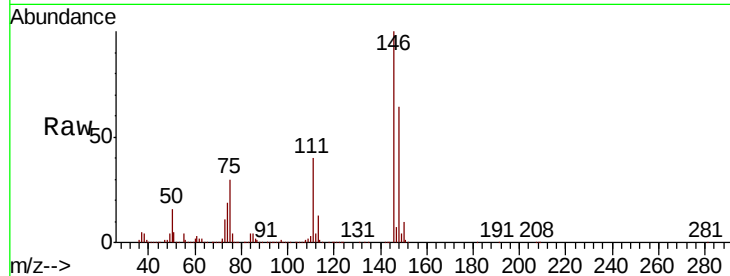




#63
 1,3-Dichlorobenzene
 Concen: 25.595 ug/L
 RT: 13.51 min Scan# 1955
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

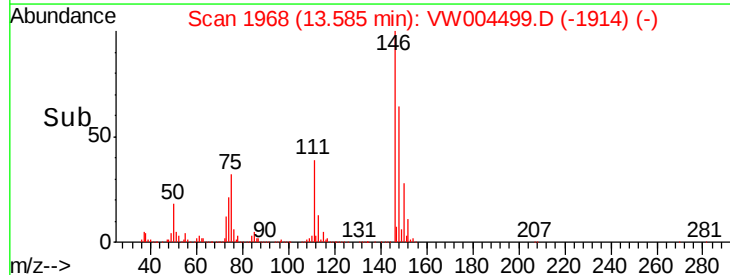
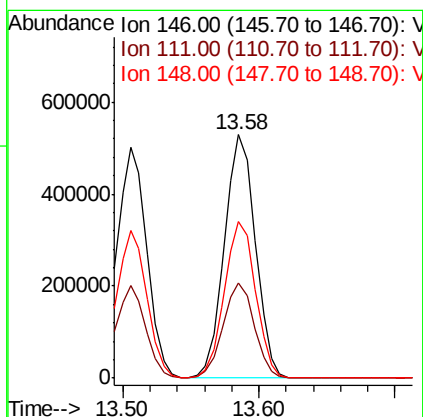
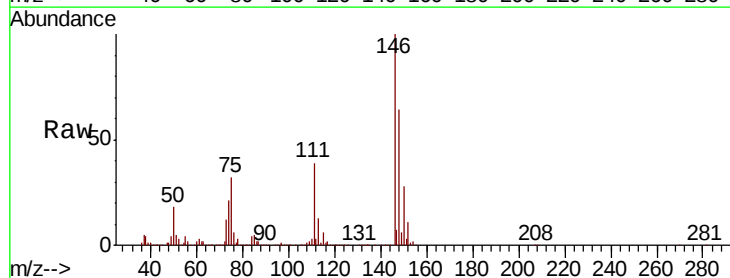
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

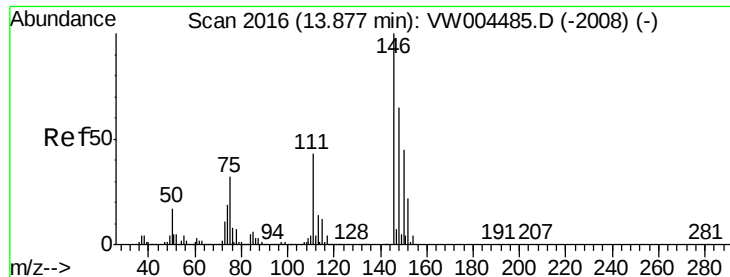
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	27.7	51.5
148	63.6	43.8	81.4



#64
 1,4-Dichlorobenzene
 Concen: 25.325 ug/L
 RT: 13.58 min Scan# 1968
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	27.7	51.5
148	64.2	45.5	84.5

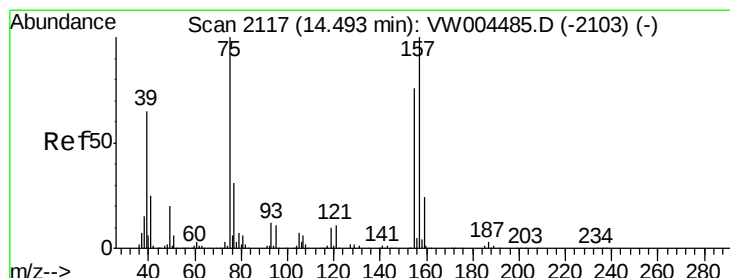
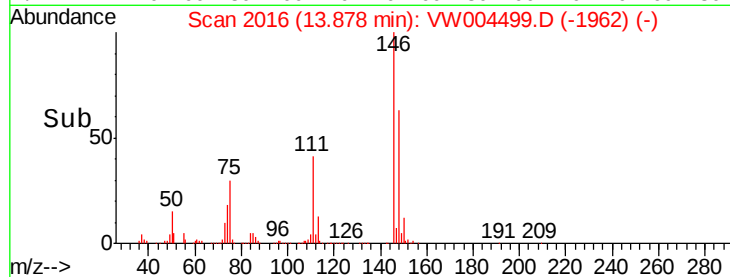
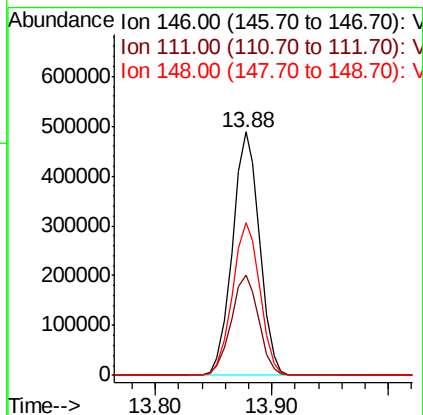
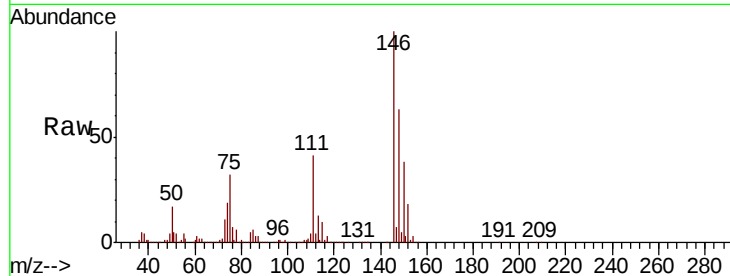




#65
 1,2-Dichlorobenzene
 Concen: 25.486 ug/L
 RT: 13.88 min Scan# 2016
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

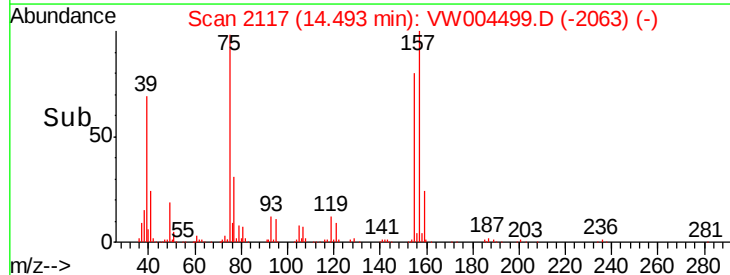
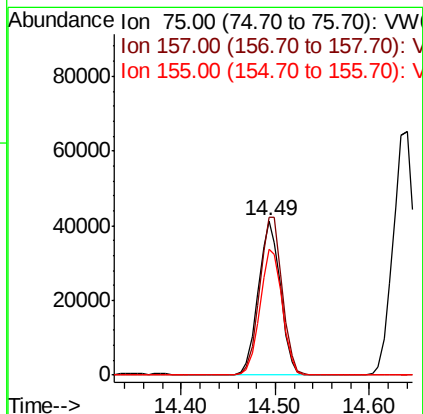
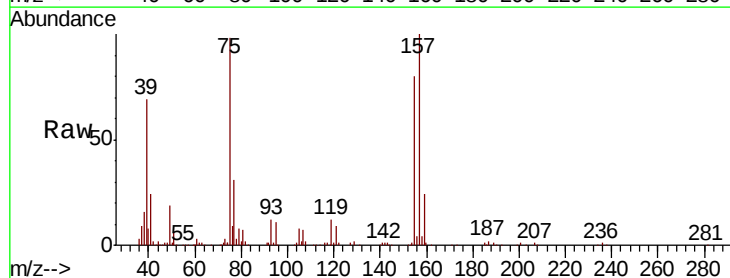
Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

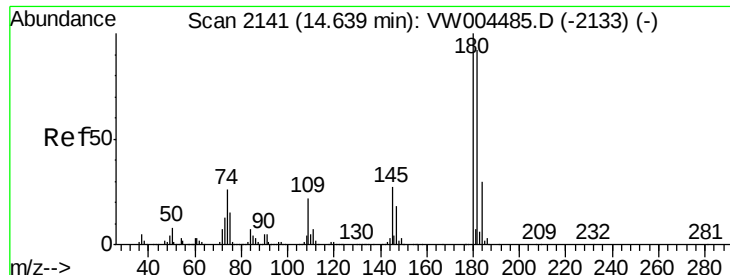
Tgt Ion: 146 Resp: 787613
 Ion Ratio Lower Upper
 146 100
 111 41.0 33.4 50.2
 148 62.8 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 21.553 ug/L
 RT: 14.49 min Scan# 2117
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion: 75 Resp: 68420
 Ion Ratio Lower Upper
 75 100
 157 102.4 81.4 122.0
 155 81.7 63.0 94.6

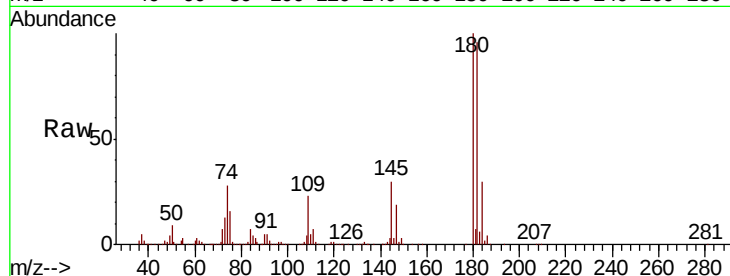




#67
 1,3,5-Trichlorobenzene
 Concen: 26.026 ug/L
 RT: 14.64 min Scan# 2141
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTD02582

Tgt Ion:	180	Resp:	636324
Ion	Ratio	Lower	Upper
180	100		
182	94.4	75.1	112.7
184	30.3	24.0	36.0
145	29.1	23.0	34.6



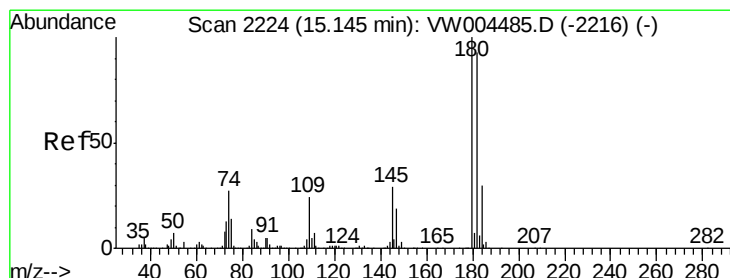
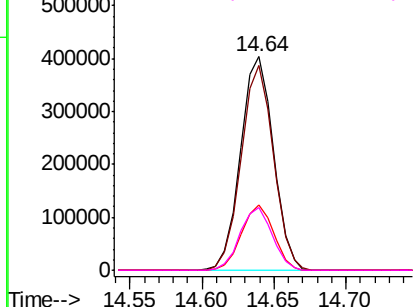
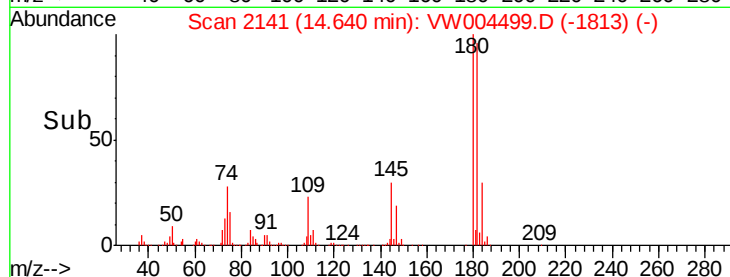
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

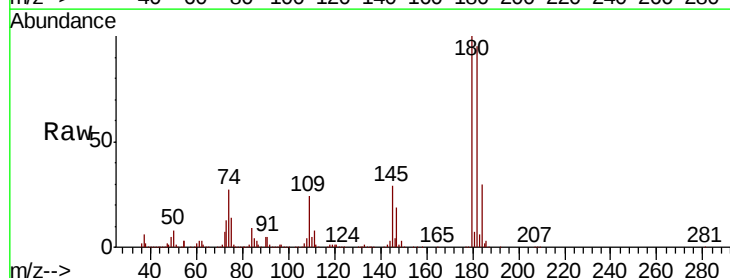
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 26.180 ug/L
 RT: 15.15 min Scan# 2224
 Delta R.T. -0.00 min
 Lab File: VW004499.D
 Acq: 07 Aug 2018 16:27

Tgt Ion:	180	Resp:	517855
Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.9	115.3
145	29.7	23.4	35.2

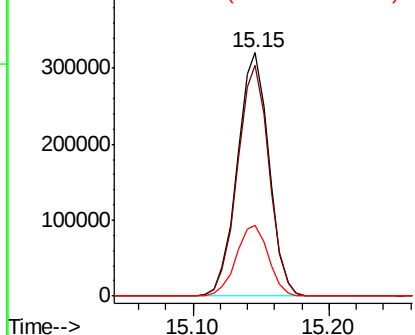
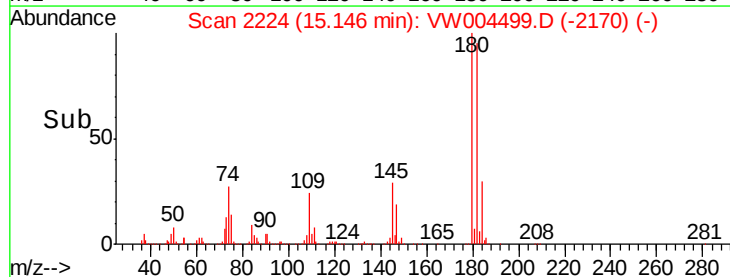


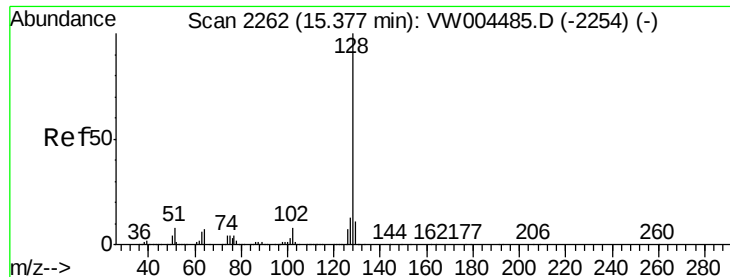
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 25.218 ug/L

RT: 15.38 min Scan# 2262

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

Instrument :

MSVOA_W

ClientSampleId :

VSTD02582

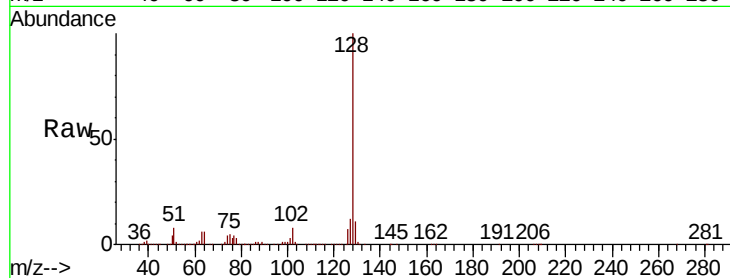
Tgt Ion:128 Resp: 1137551

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

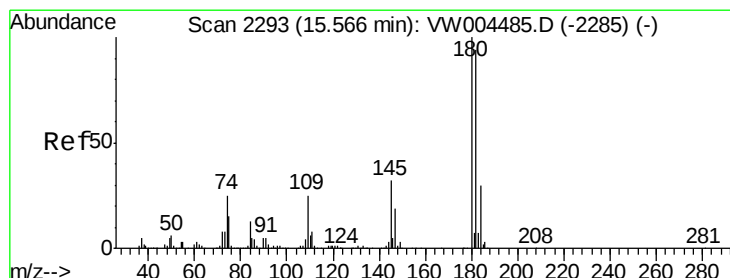
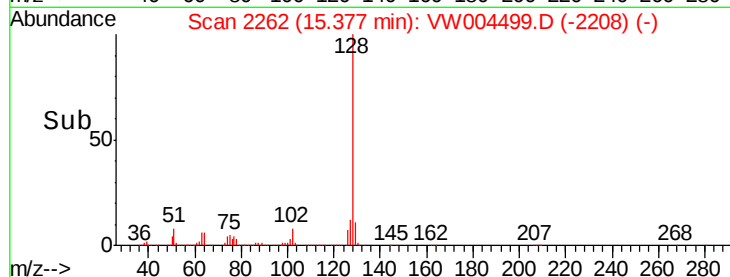
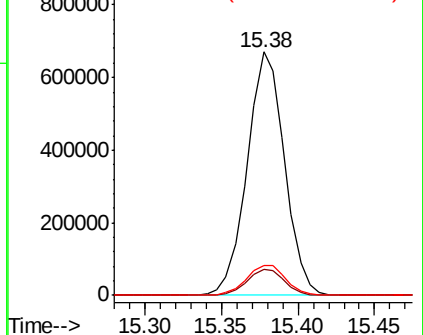
127 13.0 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 26.719 ug/L

RT: 15.57 min Scan# 2293

Delta R.T. -0.00 min

Lab File: VW004499.D

Acq: 07 Aug 2018 16:27

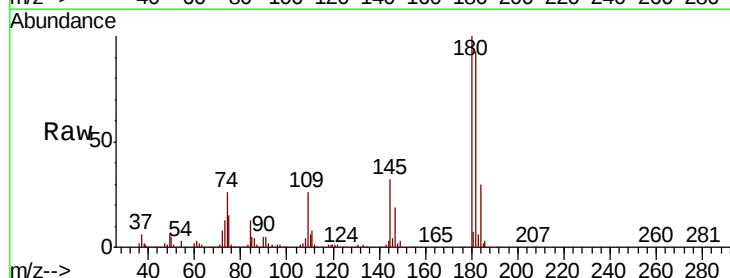
Tgt Ion:180 Resp: 514689

Ion Ratio Lower Upper

180 100

182 94.3 76.0 114.0

145 31.3 25.2 37.8



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

