

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD122721\
 Data File : VD071487.D
 Acq On : 27 Dec 2021 16:11
 Operator : VA/SY
 Sample : M5182-02
 Misc : 4.53G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :

Quant Time: Dec 27 16:49:53 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 23 08:20:24 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

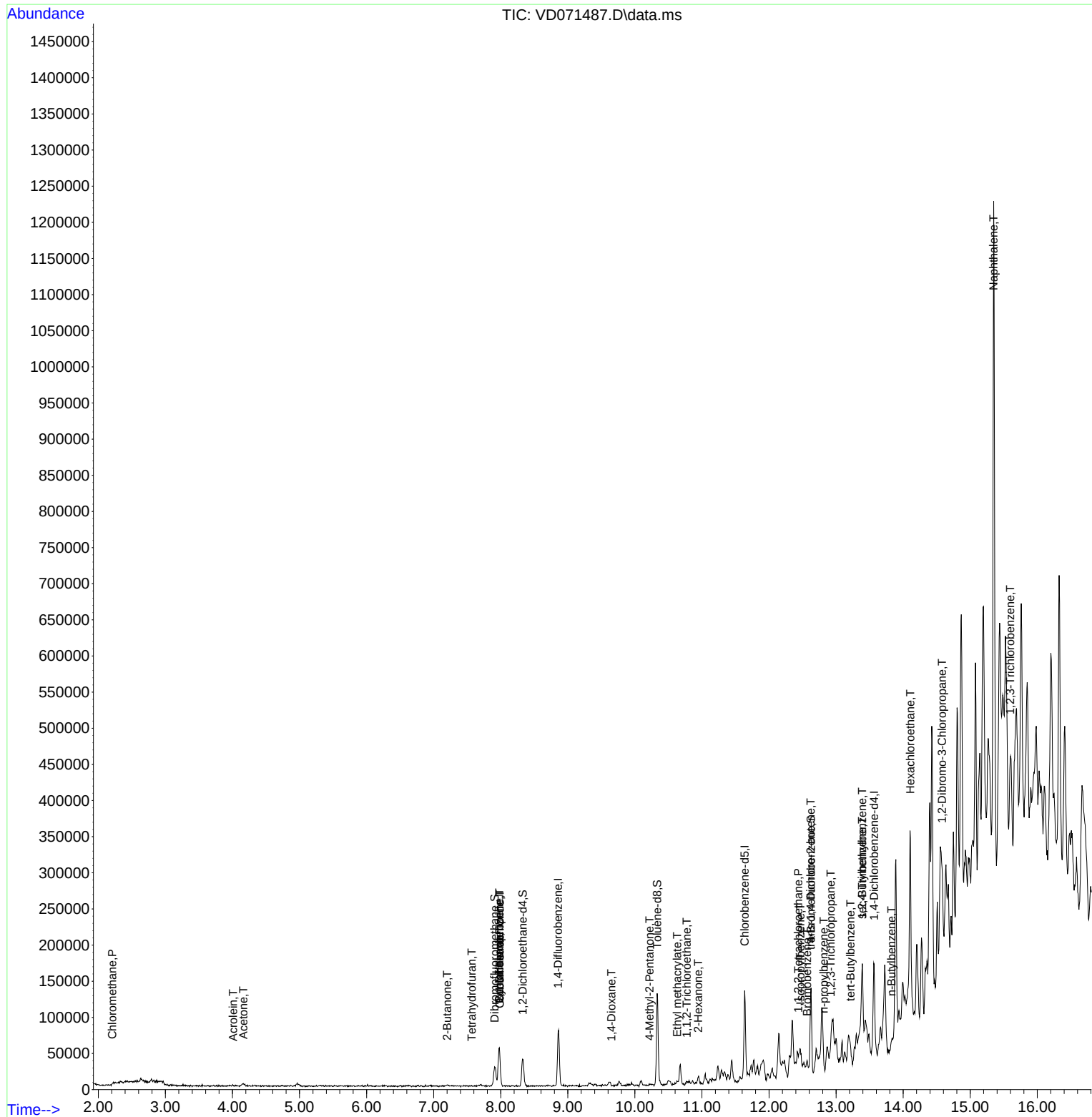
Internal Standards						
1) Pentafluorobenzene	7.979	168	37160	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	60715	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	63544	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.567	152	33583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	30356	61.510	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 123.020%	
35) Dibromofluoromethane	7.909	113	20728	50.797	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.600%	
50) Toluene-d8	10.332	98	77975	50.566	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.140%	
62) 4-Bromofluorobenzene	12.626	95	33149	60.495	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 121.000%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.209	50	735	1.474	ug/l #	68
13) Acrolein	4.009	56	54	2.265	ug/l #	11
16) Acetone	4.162	43	6482	52.291	ug/l #	85
20) Methylene Chloride	4.956	84	844	Below Cal	#	80
25) 2-Butanone	7.203	43	1020	6.889	ug/l #	45
29) Tetrahydrofuran	7.567	42	183	2.058	ug/l #	34
31) Cyclohexane	7.979	56	1495	1.783	ug/l #	49
36) 1,1-Dichloropropene	7.979	75	3378	5.182	ug/l #	44
38) Carbon Tetrachloride	7.985	117	3959	6.155	ug/l #	12
49) 1,4-Dioxane	9.650	88	68	23.951	ug/l #	1
51) 4-Methyl-2-Pentanone	10.220	43	536	1.706	ug/l #	34
55) 1,1,2-Trichloroethane	10.773	97	1170	3.669	ug/l #	16
56) Ethyl methacrylate	10.632	69	1473	3.510	ug/l #	76
59) 2-Hexanone	10.944	43	4116	18.531	ug/l #	22
73) Isopropylbenzene	12.467	105	11059	4.271	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.438	83	2506	5.354	ug/l	68
76) 1,2,3-Trichloropropane	12.920	75	562	1.408	ug/l #	15
77) Bromobenzene	12.567	156	825	1.432	ug/l #	26
78) n-propylbenzene	12.814	91	8951	2.758	ug/l	94
81) trans-1,4-Dichloro-2-b...	12.620	75	18374	130.107	ug/l #	23
83) tert-Butylbenzene	13.214	119	7790	4.269	ug/l	81
84) 1,2,4-Trimethylbenzene	13.391	105	50431	23.860	ug/l #	31
85) sec-Butylbenzene	13.391	105	50431	18.128	ug/l	84
89) n-Butylbenzene	13.826	91	5096	2.249	ug/l	84
90) Hexachloroethane	14.108	117	13109	29.978	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.579	75	620	7.638	ug/l	88
95) Naphthalene	15.349	128	5523	4.835	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.596	180	2499	4.815	ug/l #	22

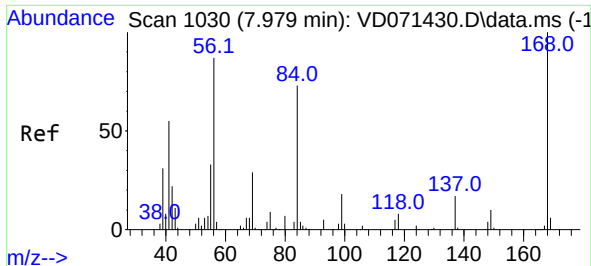
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

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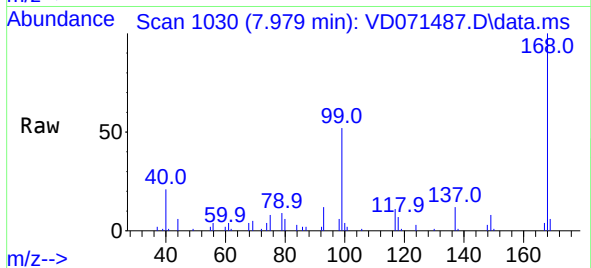
Quant Time: Dec 27 16:49:53 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D122221S.M
Quant Title : SW846 8260
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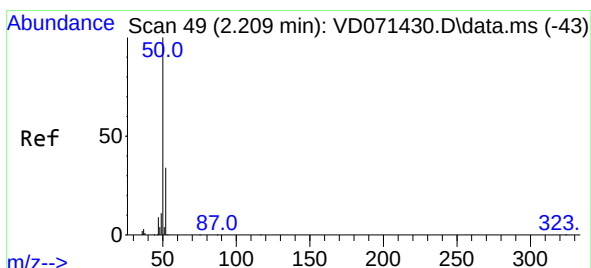
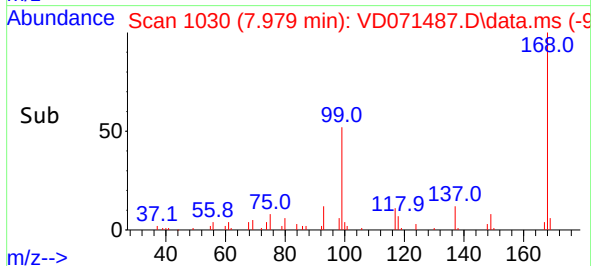
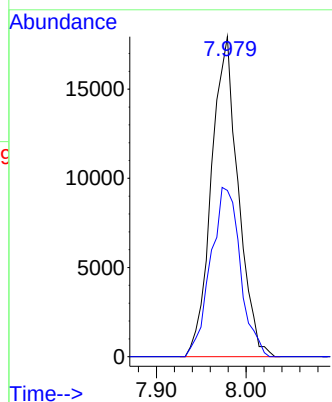


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. 0.006 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Instrument :
MSVOA_D
ClientSampleId :

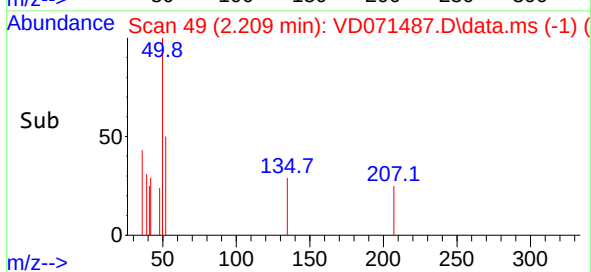
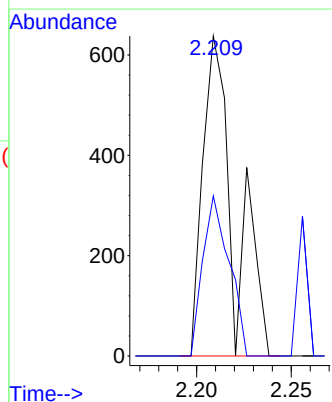
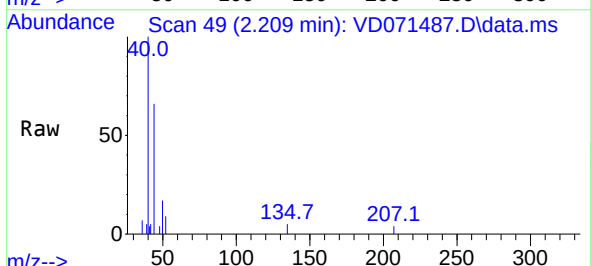


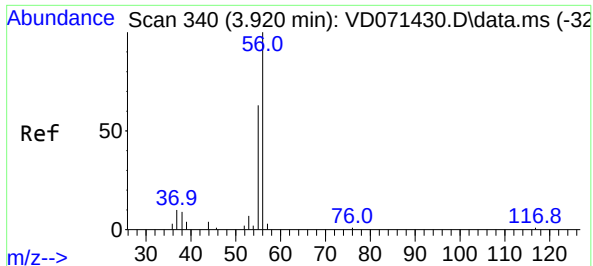
Tgt Ion:168 Resp: 37160
Ion Ratio Lower Upper
168 100
99 51.9 46.6 69.8



#3
Chloromethane
Concen: 1.474 ug/l
RT: 2.209 min Scan# 49
Delta R.T. -0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

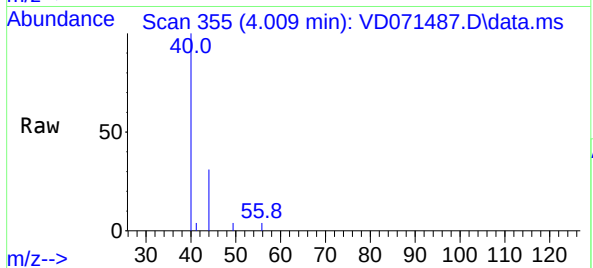
Tgt Ion: 50 Resp: 735
Ion Ratio Lower Upper
50 100
52 50.0 25.8 38.8#



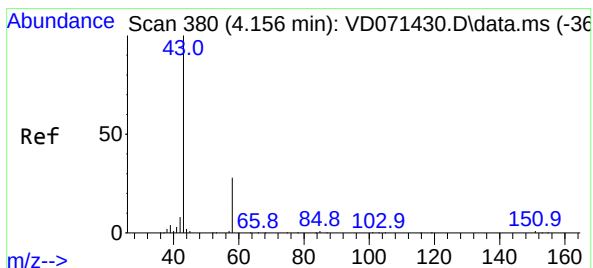
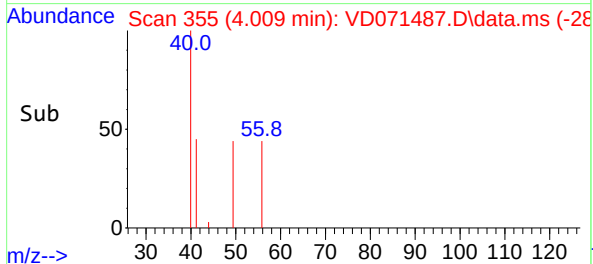
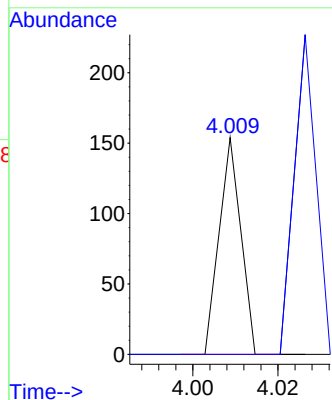


#13
Acrolein
Concen: 2.265 ug/l
RT: 4.009 min Scan# 31
Delta R.T. 0.095 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Instrument :
MSVOA_D
ClientSampleId :

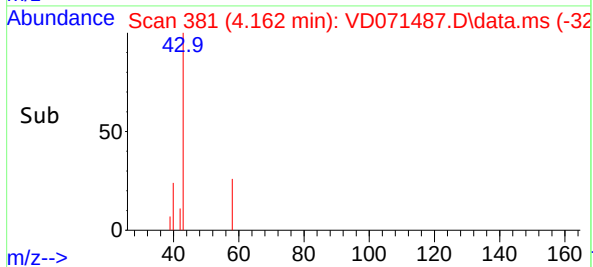
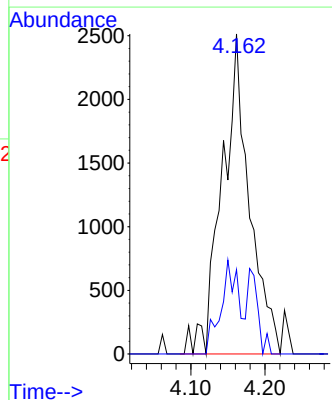
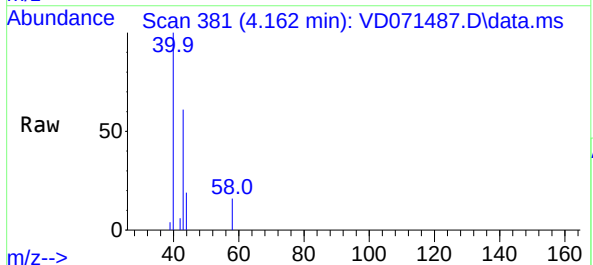


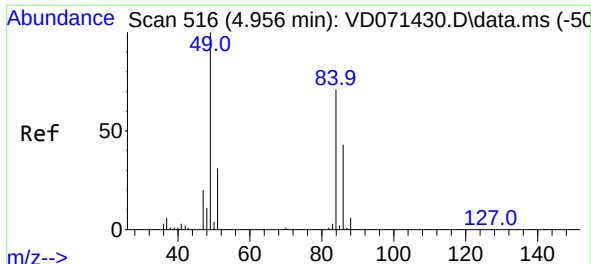
Tgt Ion: 56 Resp: 54
Ion Ratio Lower Upper
56 100
55 148.1 58.6 87.8#



#16
Acetone
Concen: 52.291 ug/l
RT: 4.162 min Scan# 381
Delta R.T. 0.006 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

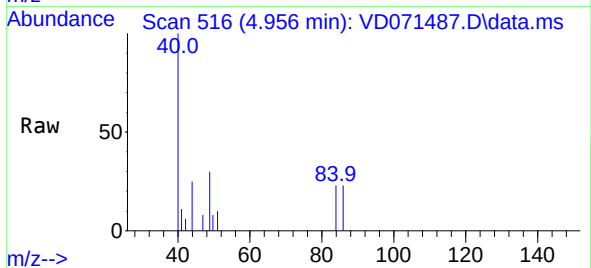
Tgt Ion: 43 Resp: 6482
Ion Ratio Lower Upper
43 100
58 26.4 27.8 41.8#



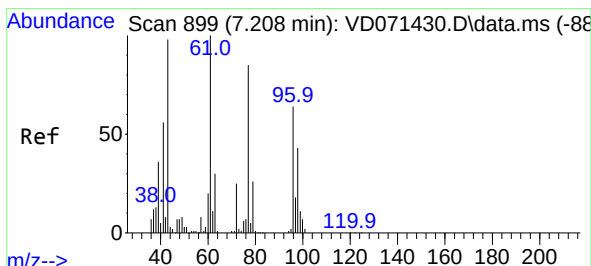
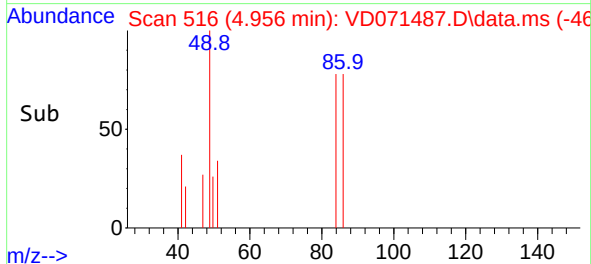
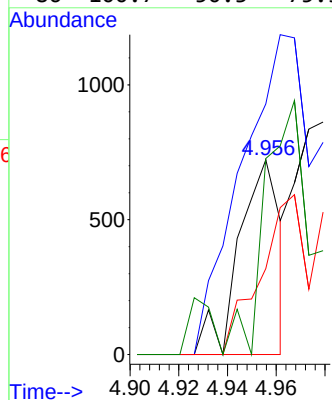


#20
Methylene Chloride
Concen: Below Cal
RT: 4.956 min Scan# 516
Delta R.T. -0.005 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Instrument :
MSVOA_D
ClientSampleId :

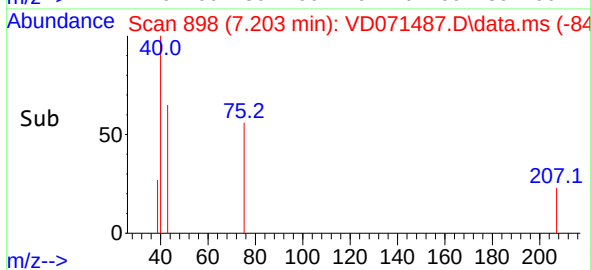
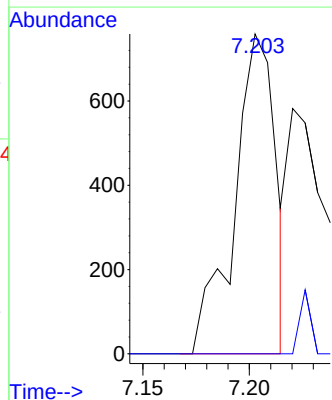
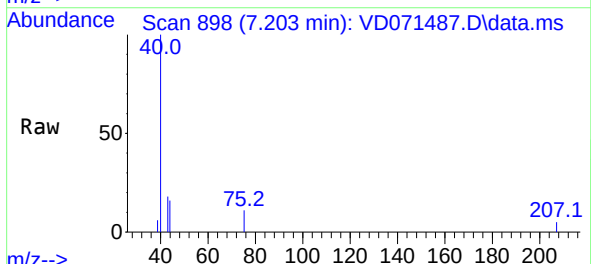


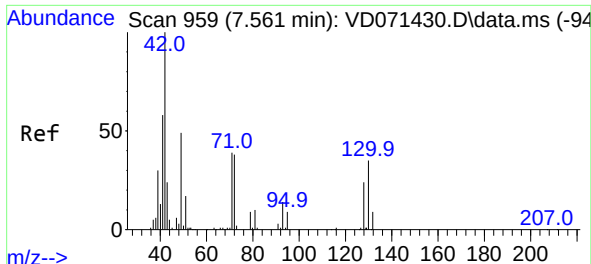
Tgt Ion:	84	Resp:	844
Ion	Ratio	Lower	Upper
84	100		
49	128.7	95.8	143.6
51	44.2	30.9	46.3
86	100.7	50.3	75.5#



#25
2-Butanone
Concen: 6.889 ug/l
RT: 7.203 min Scan# 898
Delta R.T. -0.005 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Tgt Ion:	43	Resp:	1020
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.8	35.6#





#29

Tetrahydrofuran

Concen: 2.058 ug/l

RT: 7.567 min Scan# 90

Delta R.T. 0.012 min

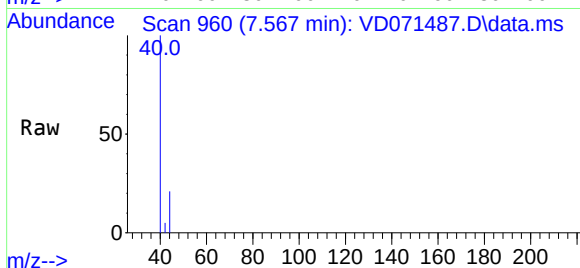
Lab File: VD071487.D

Acq: 27 Dec 2021 16:11

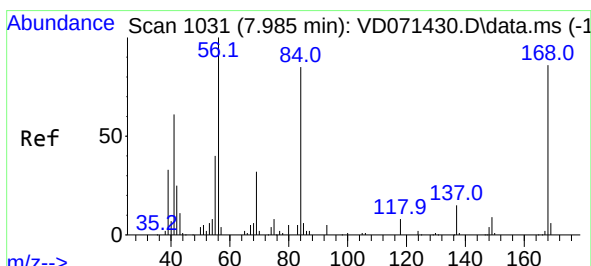
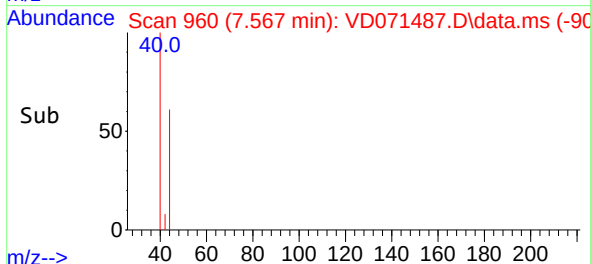
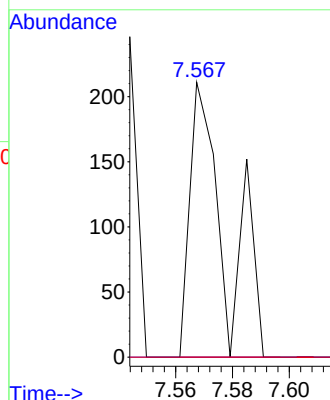
Instrument :

MSVOA_D

ClientSampleId :



Tgt Ion: 42	Resp: 183
Ion Ratio	Lower Upper
42 100	
72 0.0	33.7 50.5#
71 0.0	32.7 49.1#



#31

Cyclohexane

Concen: 1.783 ug/l

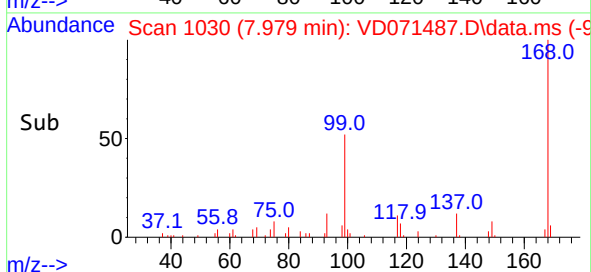
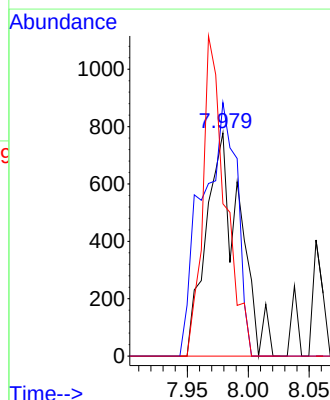
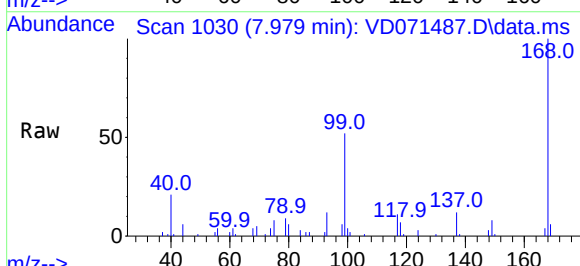
RT: 7.979 min Scan# 1030

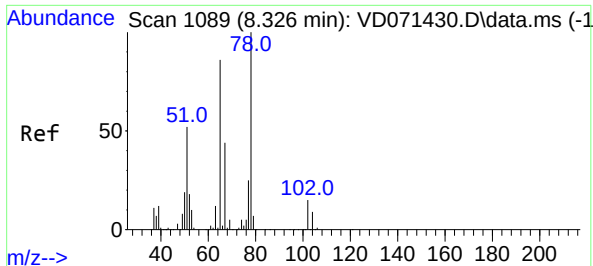
Delta R.T. -0.006 min

Lab File: VD071487.D

Acq: 27 Dec 2021 16:11

Tgt Ion: 56	Resp: 1495
Ion Ratio	Lower Upper
56 100	
69 113.6	25.9 38.9#
84 68.3	64.3 96.5

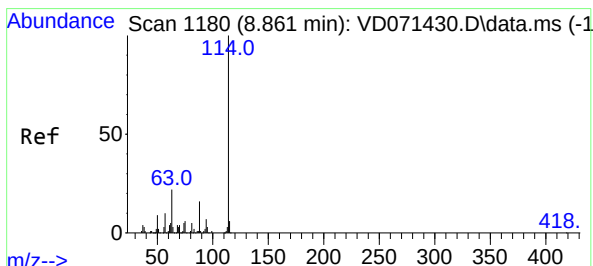
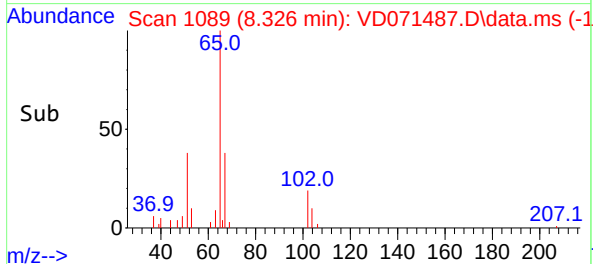
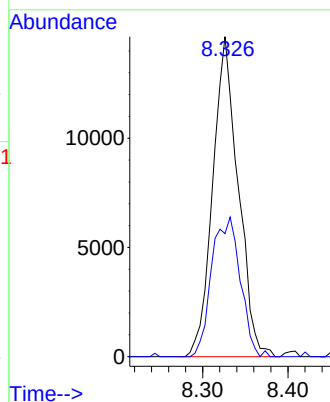
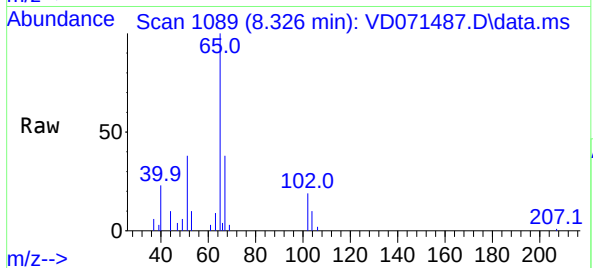




#33
1,2-Dichloroethane-d4
Concen: 61.510 ug/l
RT: 8.326 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

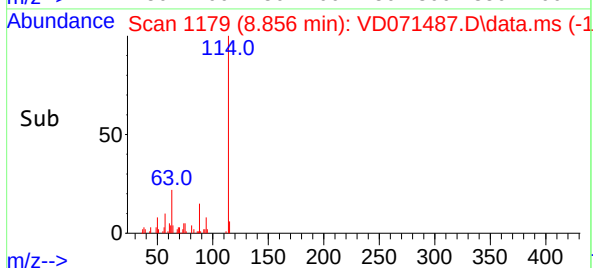
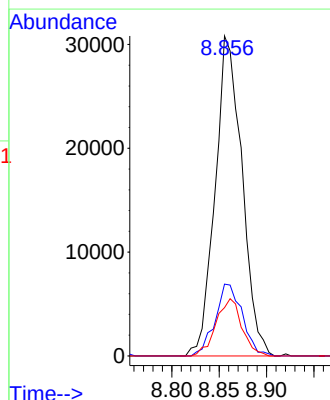
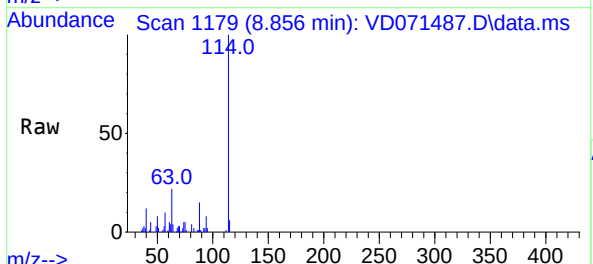
Instrument :
MSVOA_D
ClientSampleId :

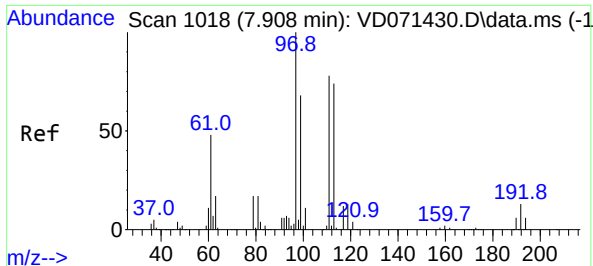
Tgt Ion: 65 Resp: 30356
Ion Ratio Lower Upper
65 100
67 48.9 0.0 112.2



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.856 min Scan# 1179
Delta R.T. -0.005 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Tgt Ion:114 Resp: 60715
Ion Ratio Lower Upper
114 100
63 22.4 0.0 41.8
88 15.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.797 ug/l

RT: 7.909 min Scan# 1030

Delta R.T. 0.001 min

Lab File: VD071487.D

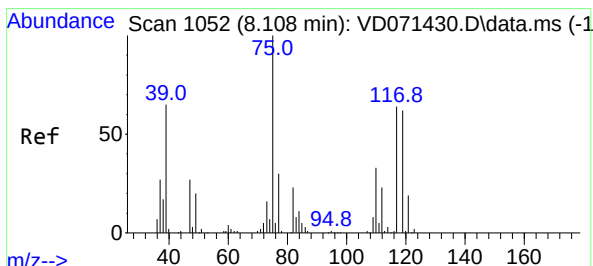
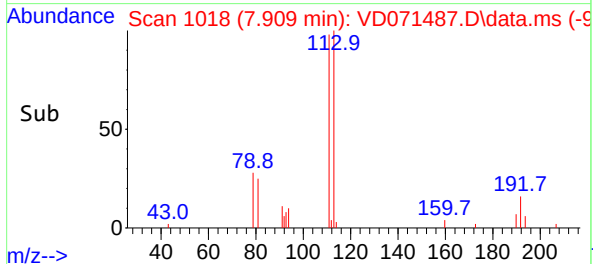
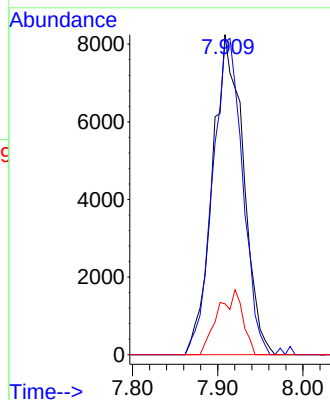
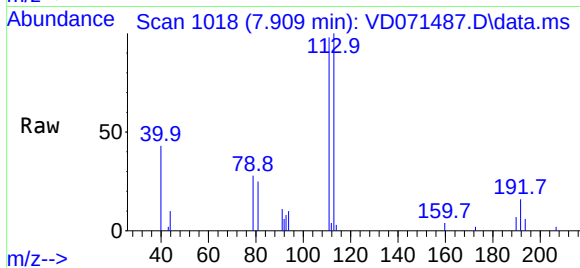
Acq: 27 Dec 2021 16:11

Instrument :

MSVOA_D

ClientSampleId :

Tgt Ion:	113	Resp:	20728
Ion	Ratio	Lower	Upper
113	100		
111	96.1	82.0	123.0
192	16.4	15.2	22.8



#36

1,1-Dichloropropene

Concen: 5.182 ug/l

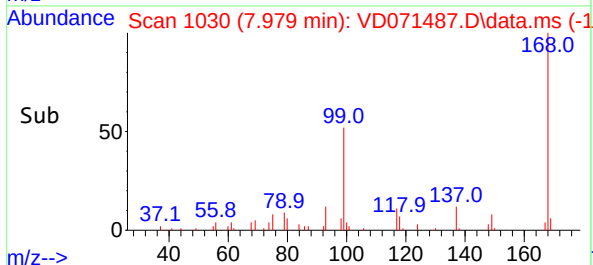
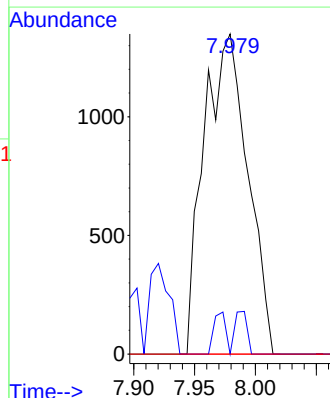
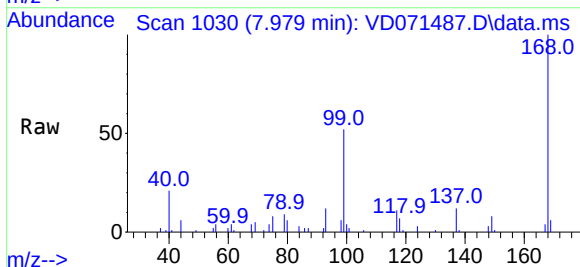
RT: 7.979 min Scan# 1030

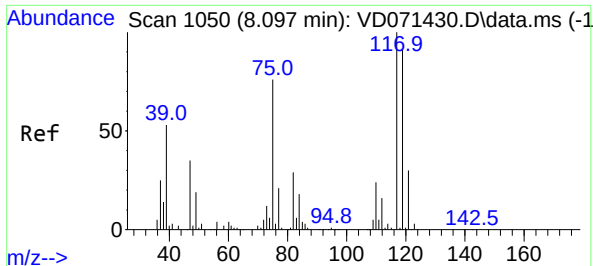
Delta R.T. -0.129 min

Lab File: VD071487.D

Acq: 27 Dec 2021 16:11

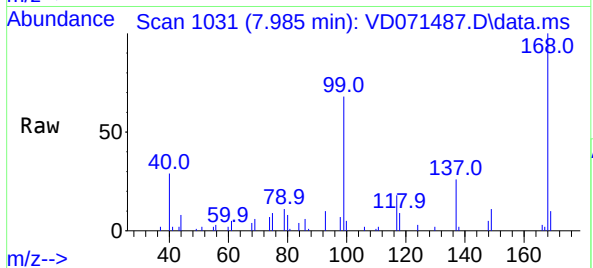
Tgt Ion:	75	Resp:	3378
Ion	Ratio	Lower	Upper
75	100		
110	3.5	17.8	53.4#
77	0.0	24.8	37.2#



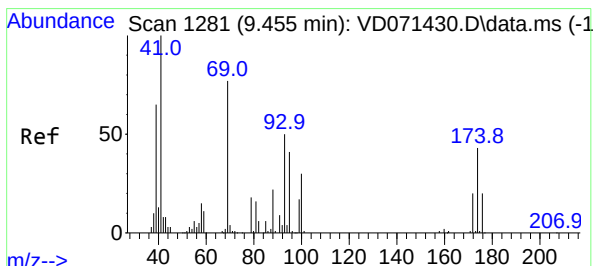
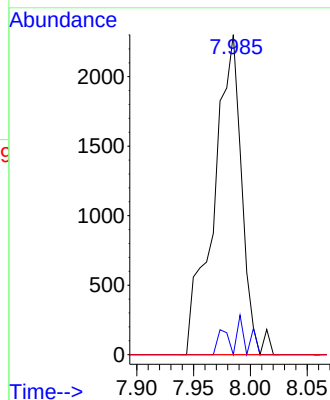
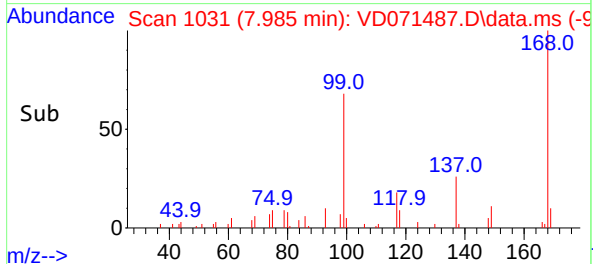


#38
Carbon Tetrachloride
Concen: 6.155 ug/l
RT: 7.985 min Scan# 10
Delta R.T. -0.112 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

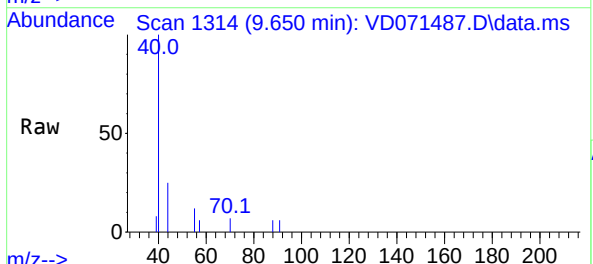
Instrument :
MSVOA_D
ClientSampleId :



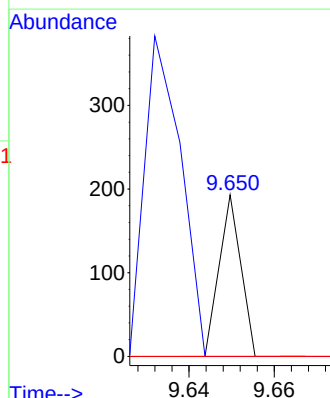
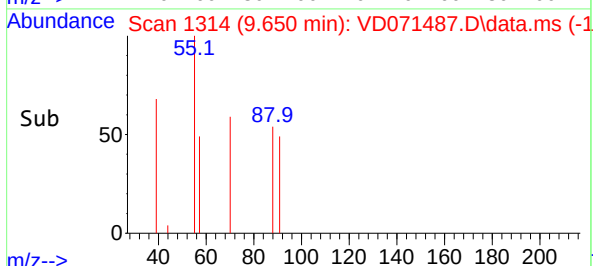
Tgt Ion:117 Resp: 3959
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 23.6 35.4#

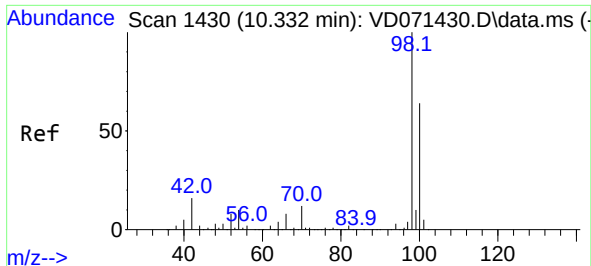


#49
1,4-Dioxane
Concen: 23.951 ug/l
RT: 9.650 min Scan# 1314
Delta R.T. 0.195 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11



Tgt Ion: 88 Resp: 68
Ion Ratio Lower Upper
88 100
43 332.4 28.9 43.3#
58 0.0 56.3 84.5#

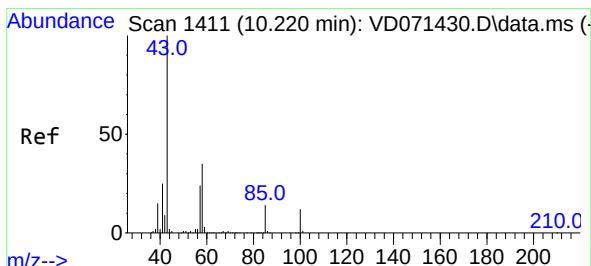
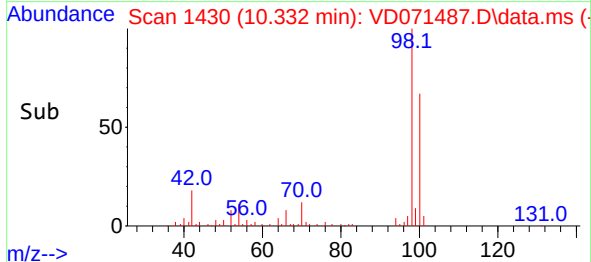
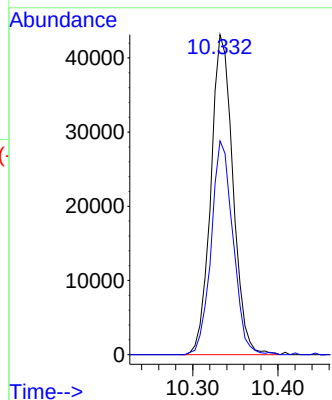
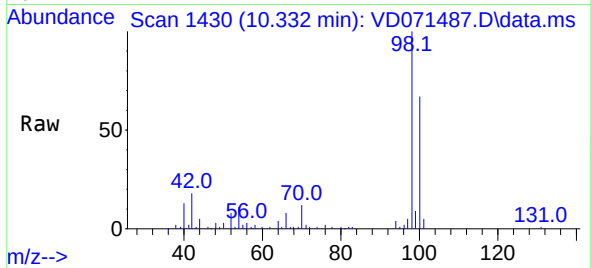




#50
Toluene-d8
Concen: 50.566 ug/l
RT: 10.332 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

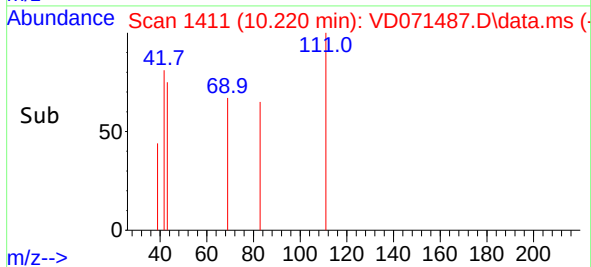
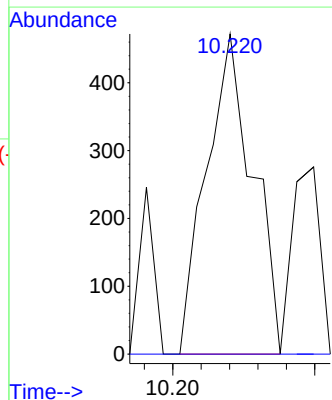
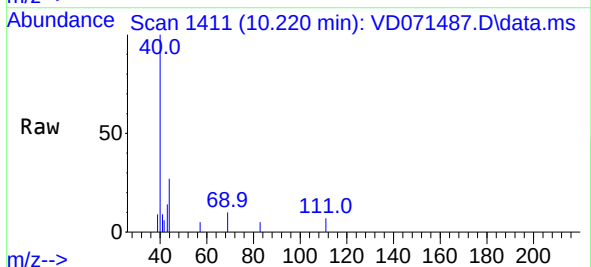
Instrument :
MSVOA_D
ClientSampleId :

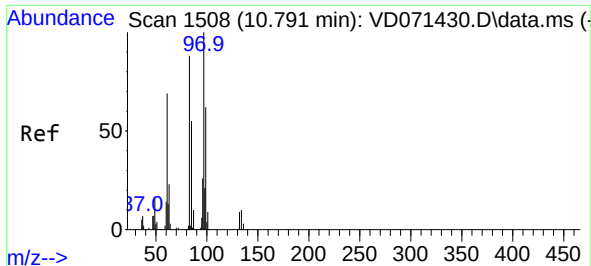
Tgt Ion: 98 Resp: 77975
Ion Ratio Lower Upper
98 100
100 65.9 51.8 77.6



#51
4-Methyl-2-Pentanone
Concen: 1.706 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. 0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

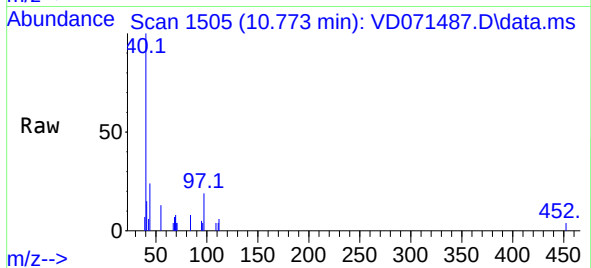
Tgt Ion: 43 Resp: 536
Ion Ratio Lower Upper
43 100
58 0.0 33.1 49.7#



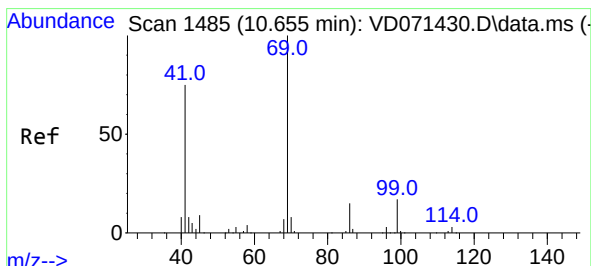
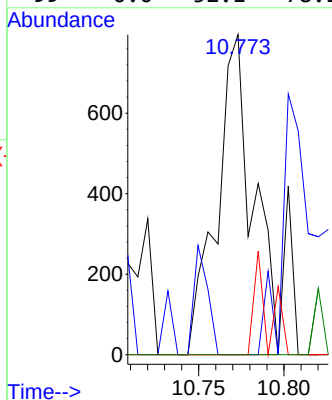
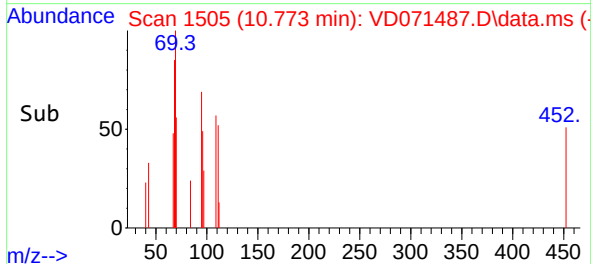


#55
1,1,2-Trichloroethane
Concen: 3.669 ug/l
RT: 10.773 min Scan# 1170
Delta R.T. -0.018 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Instrument :
MSVOA_D
ClientSampleId :

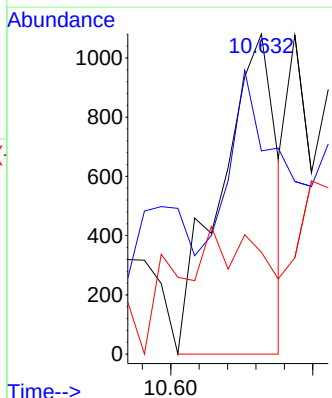
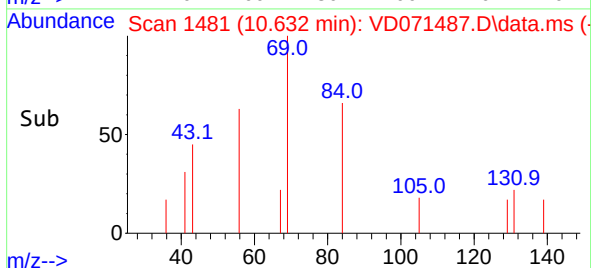
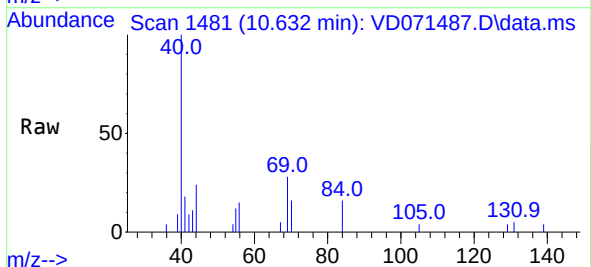


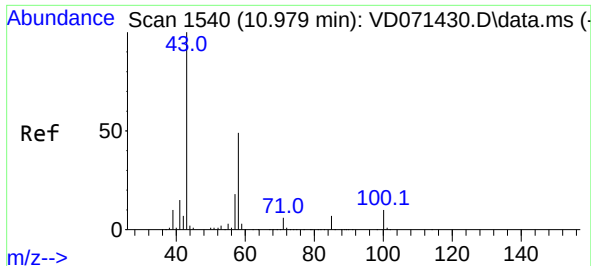
Tgt Ion: 97 Resp: 1170
Ion Ratio Lower Upper
97 100
83 0.0 65.2 97.8#
85 0.0 43.4 65.0#
99 0.0 52.1 78.1#



#56
Ethyl methacrylate
Concen: 3.510 ug/l
RT: 10.632 min Scan# 1481
Delta R.T. -0.023 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Tgt Ion: 69 Resp: 1473
Ion Ratio Lower Upper
69 100
41 66.2 50.2 75.2
39 61.4 19.8 29.8#

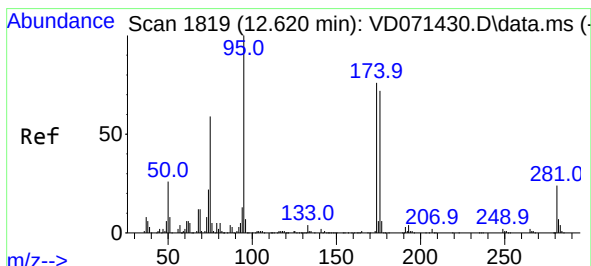
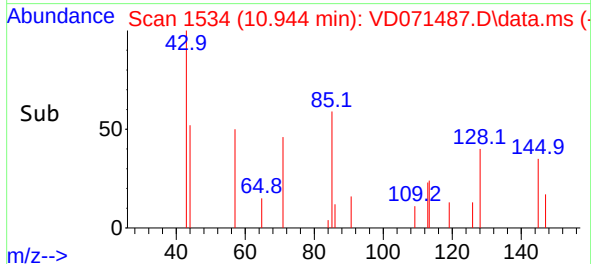
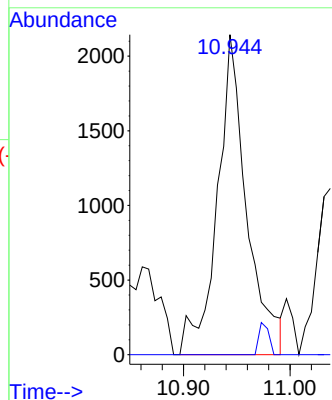
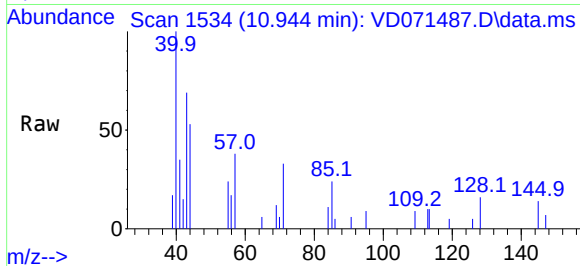




#59
2-Hexanone
Concen: 18.531 ug/l
RT: 10.944 min Scan# 11
Delta R.T. -0.035 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

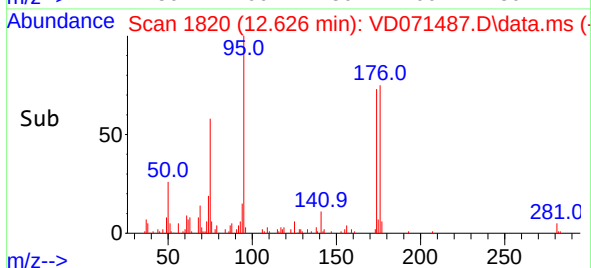
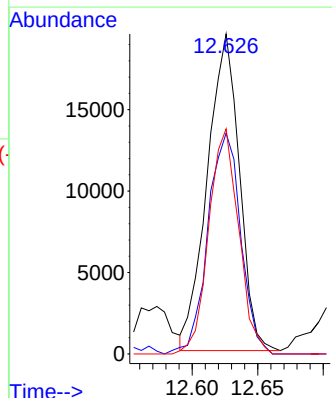
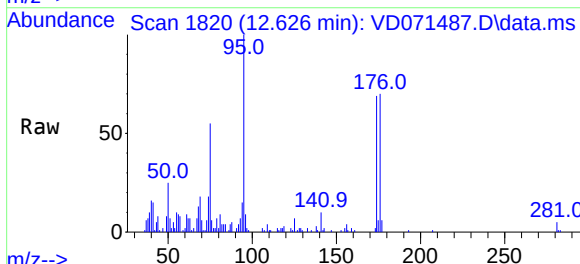
Instrument :
MSVOA_D
ClientSampleId :

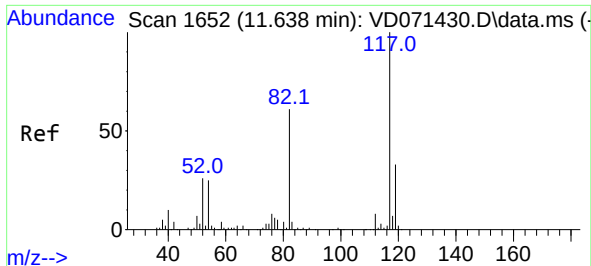
Tgt Ion: 43 Resp: 4116
Ion Ratio Lower Upper
43 100
58 0.0 28.7 86.1#



#62
4-Bromofluorobenzene
Concen: 60.495 ug/l
RT: 12.626 min Scan# 1820
Delta R.T. -0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

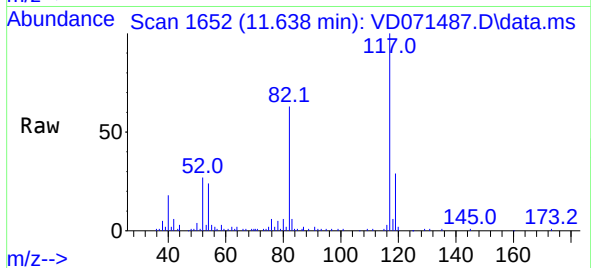
Tgt Ion: 95 Resp: 33149
Ion Ratio Lower Upper
95 100
174 71.1 0.0 159.4
176 66.2 0.0 154.0



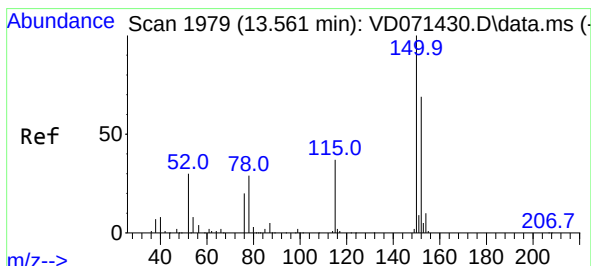
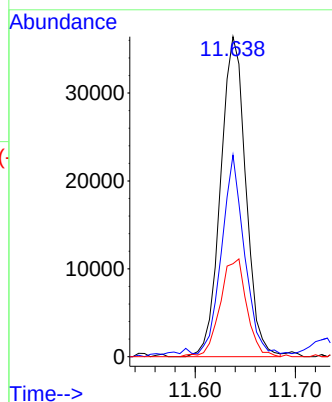
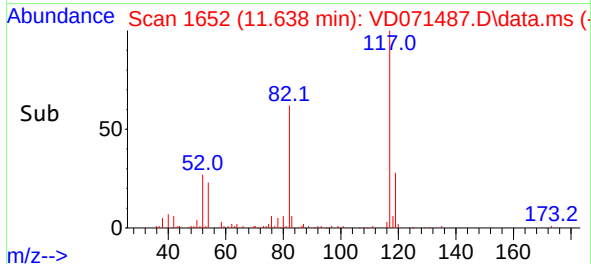


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

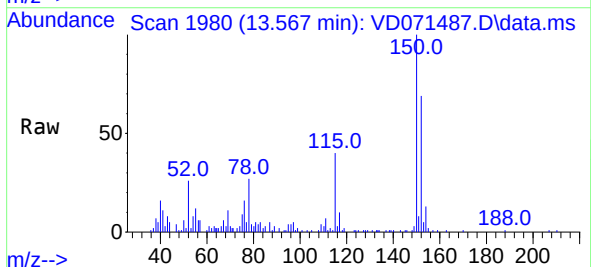
Instrument :
MSVOA_D
ClientSampleId :



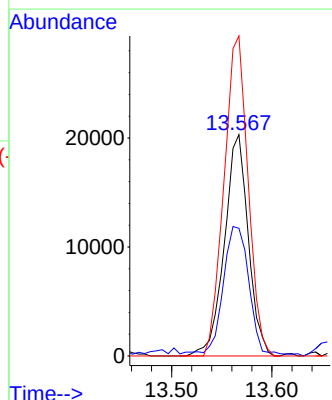
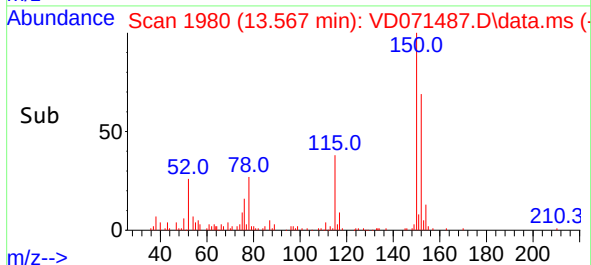
Tgt Ion:117 Resp: 63544
Ion Ratio Lower Upper
117 100
82 62.0 44.7 67.1
119 29.0 26.2 39.4

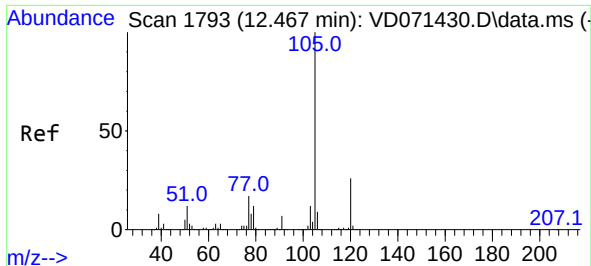


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.567 min Scan# 1980
Delta R.T. 0.006 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11



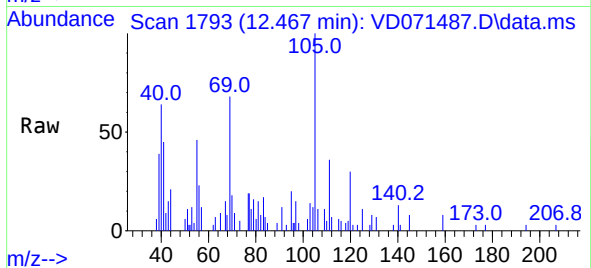
Tgt Ion:152 Resp: 33583
Ion Ratio Lower Upper
152 100
115 64.4 29.8 89.3
150 145.5 0.0 349.2



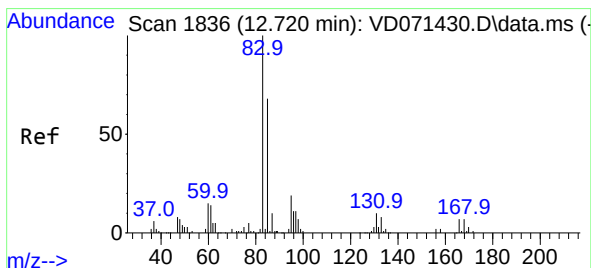
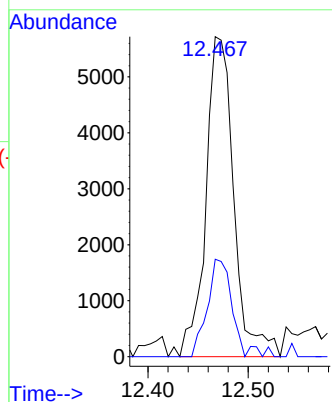
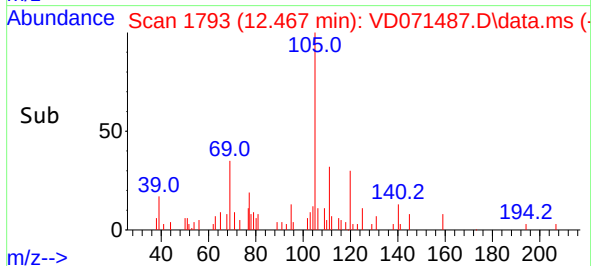


#73
Isopropylbenzene
Concen: 4.271 ug/l
RT: 12.467 min Scan# 11
Delta R.T. 0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

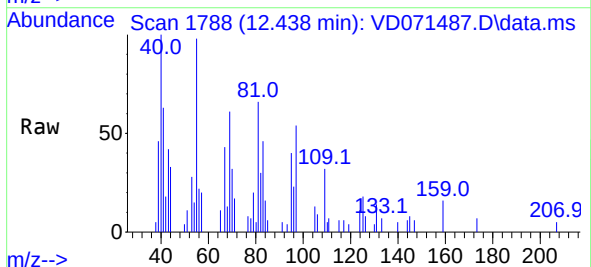
Instrument :
MSVOA_D
ClientSampleId :



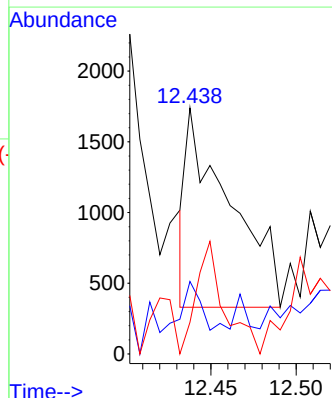
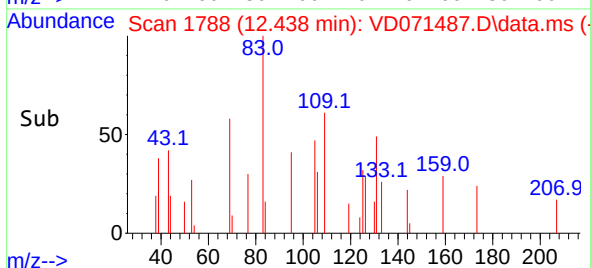
Tgt Ion:105 Resp: 11059
Ion Ratio Lower Upper
105 100
120 27.1 13.2 39.5

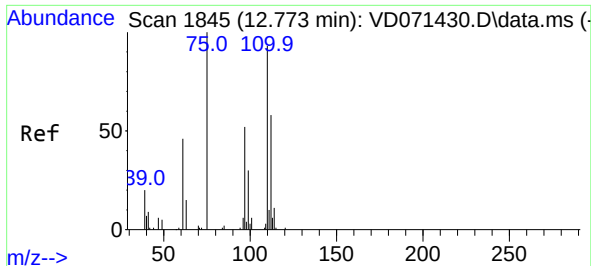


#75
1,1,2,2-Tetrachloroethane
Concen: 5.354 ug/l
RT: 12.438 min Scan# 1788
Delta R.T. -0.282 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11



Tgt Ion: 83 Resp: 2506
Ion Ratio Lower Upper
83 100
131 8.0 4.9 14.7
85 35.9 32.0 96.2

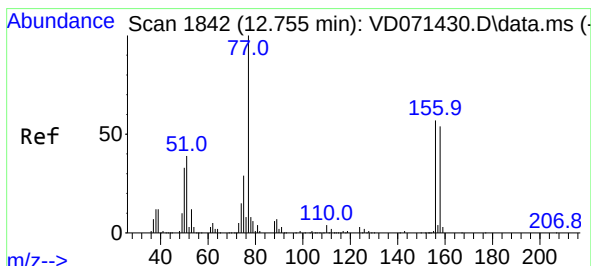
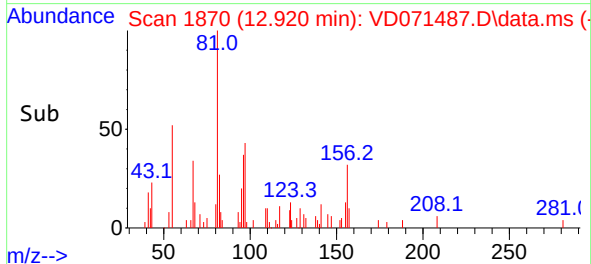
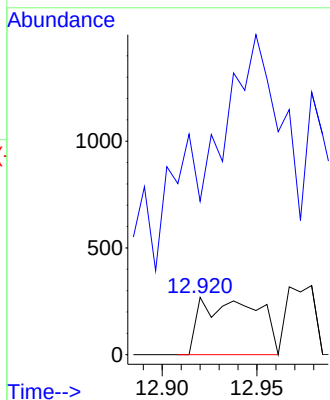
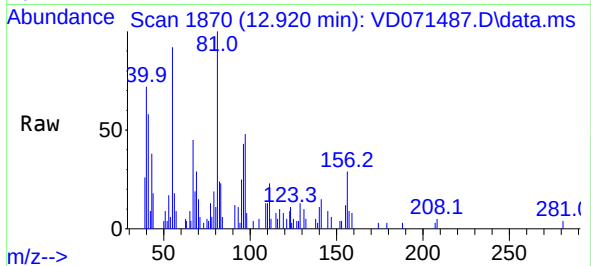




#76
1,2,3-Trichloropropane
Concen: 1.408 ug/l
RT: 12.920 min Scan# 1810
Delta R.T. 0.147 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

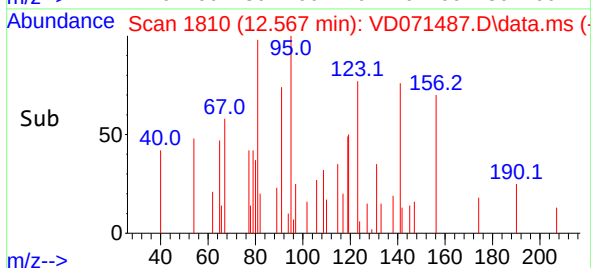
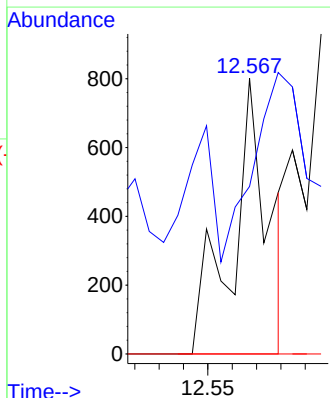
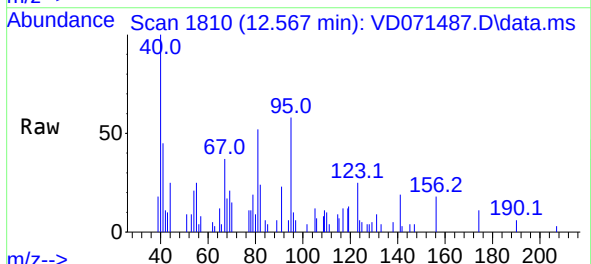
Instrument :
MSVOA_D
ClientSampleId :

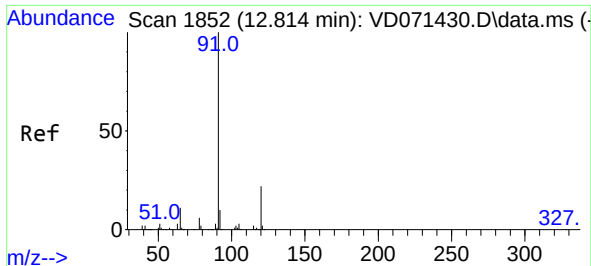
Tgt Ion: 75 Resp: 562
Ion Ratio Lower Upper
75 100
77 143.1 158.4 475.3#



#77
Bromobenzene
Concen: 1.432 ug/l
RT: 12.567 min Scan# 1810
Delta R.T. -0.182 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Tgt Ion: 156 Resp: 825
Ion Ratio Lower Upper
156 100
77 103.3 96.6 289.8
158 0.0 49.1 147.4#

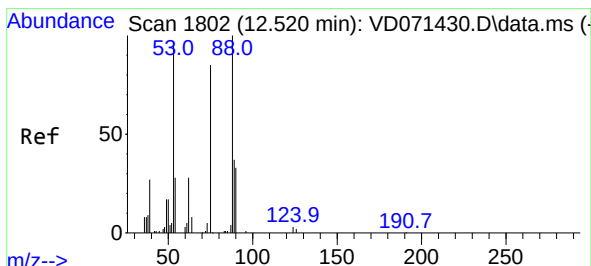
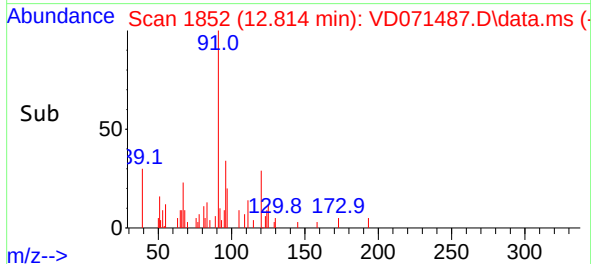
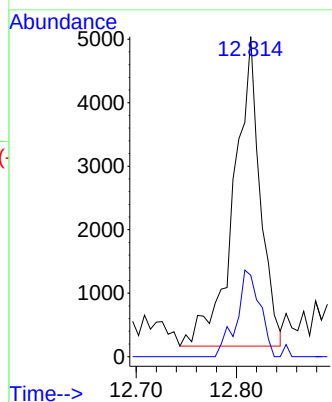
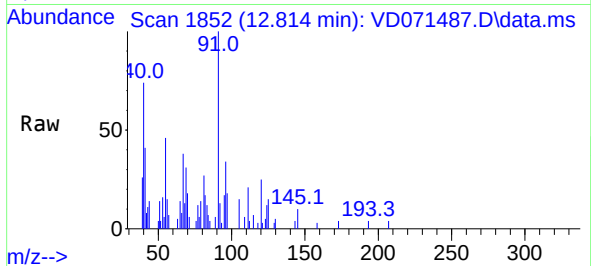




#78
n-propylbenzene
Concen: 2.758 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.006 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

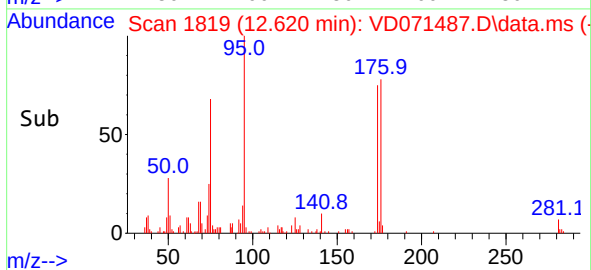
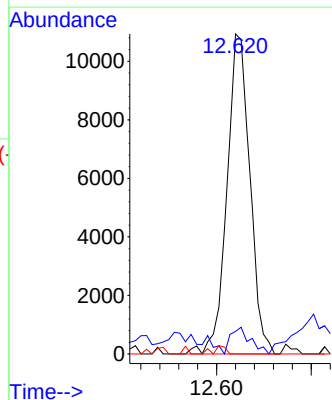
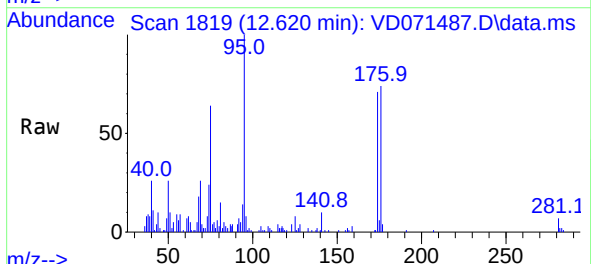
Instrument :
MSVOA_D
ClientSampleId :

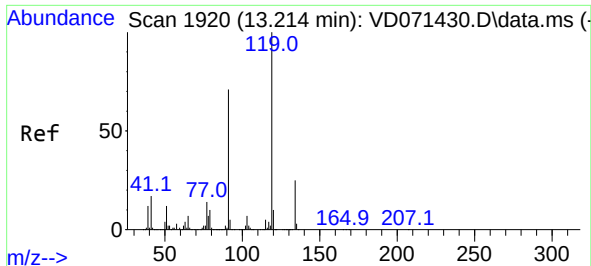
Tgt Ion: 91 Resp: 8951
Ion Ratio Lower Upper
91 100
120 24.5 10.9 32.9



#81
trans-1,4-Dichloro-2-butene
Concen: 130.107 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. 0.100 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

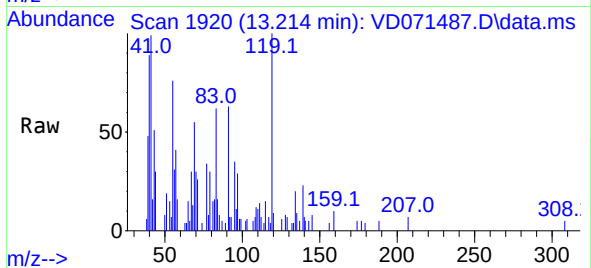
Tgt Ion: 75 Resp: 18374
Ion Ratio Lower Upper
75 100
53 7.1 62.6 94.0#
89 0.0 34.5 51.7#



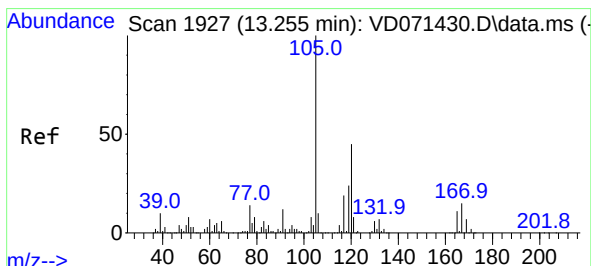
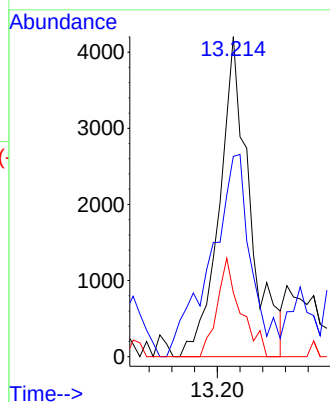
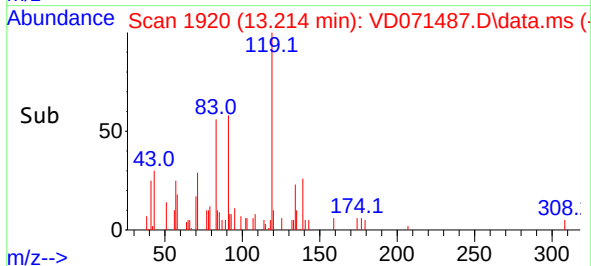


#83
tert-Butylbenzene
Concen: 4.269 ug/l
RT: 13.214 min Scan# 1920
Delta R.T. 0.000 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

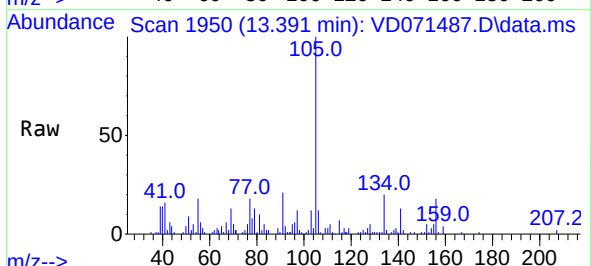
Instrument :
MSVOA_D
ClientSampleId :



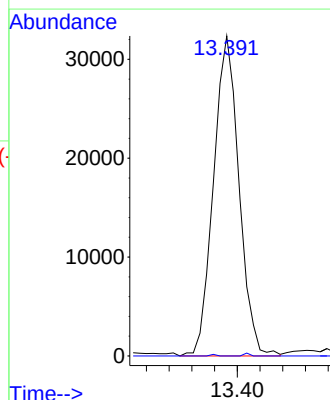
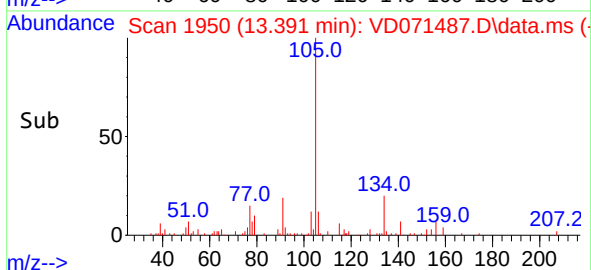
Tgt Ion:119 Resp: 7790
Ion Ratio Lower Upper
119 100
91 84.5 32.5 97.5
134 23.9 13.2 39.6

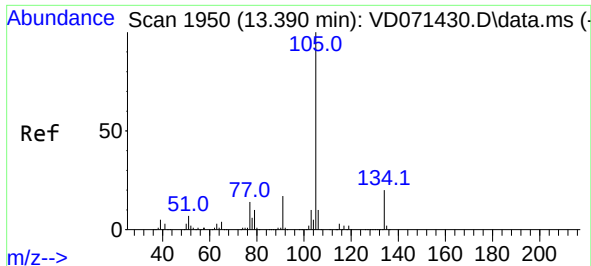


#84
1,2,4-Trimethylbenzene
Concen: 23.860 ug/l
RT: 13.391 min Scan# 1950
Delta R.T. 0.130 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11



Tgt Ion:105 Resp: 50431
Ion Ratio Lower Upper
105 100
120 0.1 22.9 68.7#

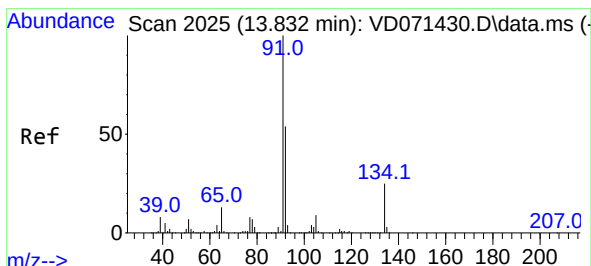
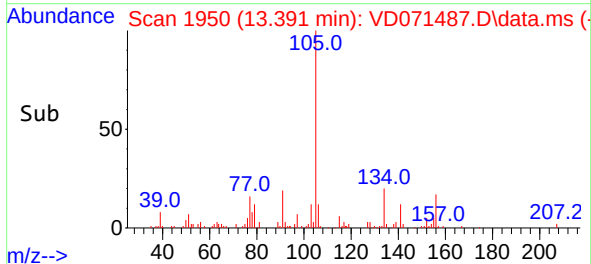
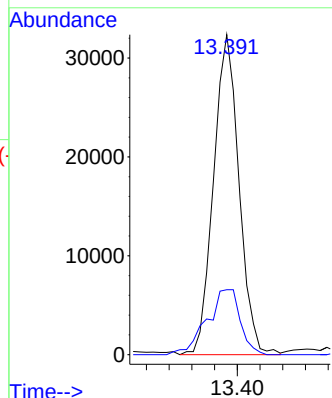
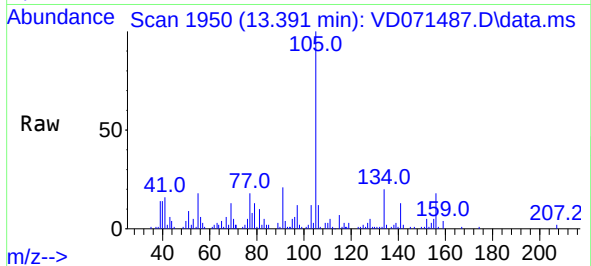




#85
 sec-Butylbenzene
 Concen: 18.128 ug/l
 RT: 13.391 min Scan# 1950
 Delta R.T. 0.001 min
 Lab File: VD071487.D
 Acq: 27 Dec 2021 16:11

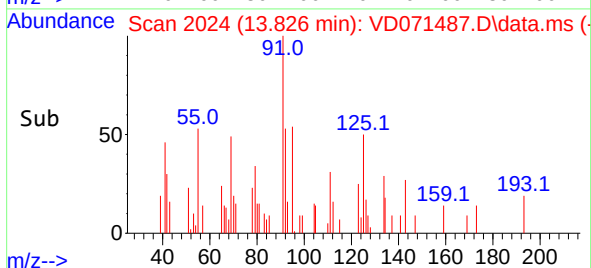
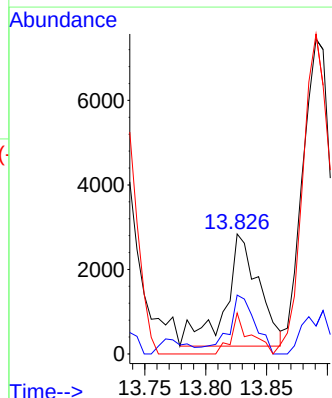
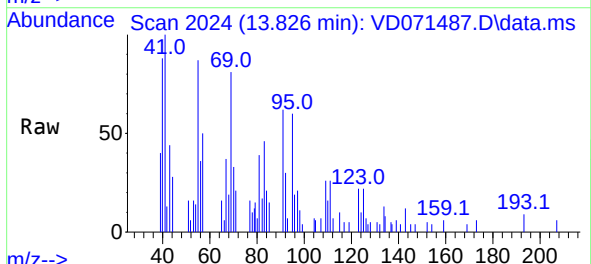
Instrument :
 MSVOA_D
 ClientSampleId :

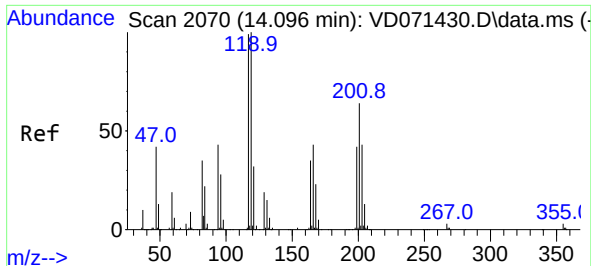
Tgt Ion:105 Resp: 50431
 Ion Ratio Lower Upper
 105 100
 134 26.7 9.7 28.9



#89
 n-Butylbenzene
 Concen: 2.249 ug/l
 RT: 13.826 min Scan# 2024
 Delta R.T. -0.006 min
 Lab File: VD071487.D
 Acq: 27 Dec 2021 16:11

Tgt Ion: 91 Resp: 5096
 Ion Ratio Lower Upper
 91 100
 92 41.0 27.3 81.9
 134 20.5 12.3 36.9

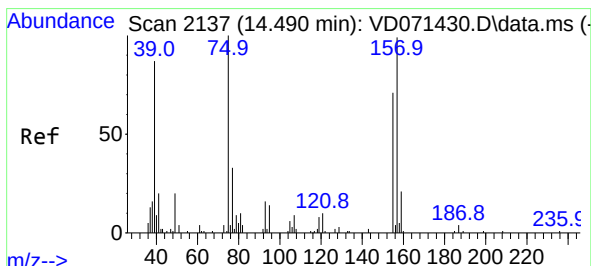
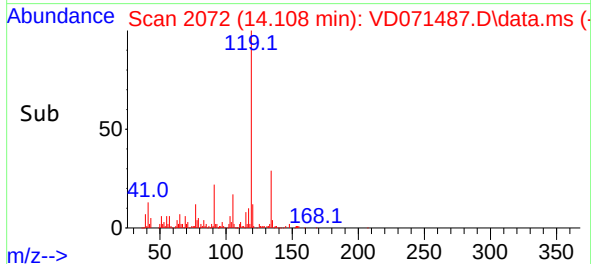
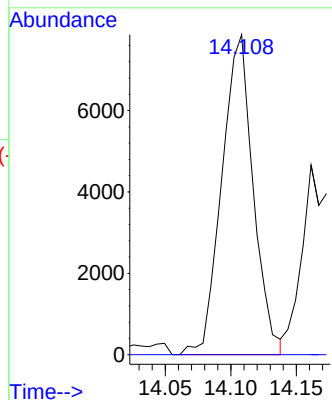
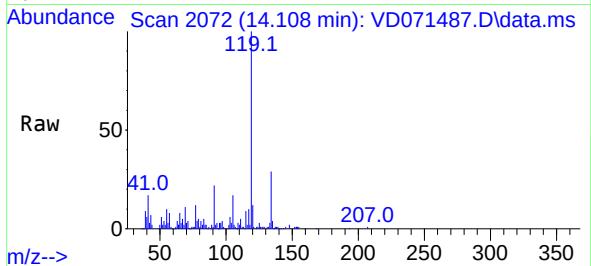




#90
Hexachloroethane
Concen: 29.978 ug/l
RT: 14.108 min Scan# 2070
Delta R.T. 0.012 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

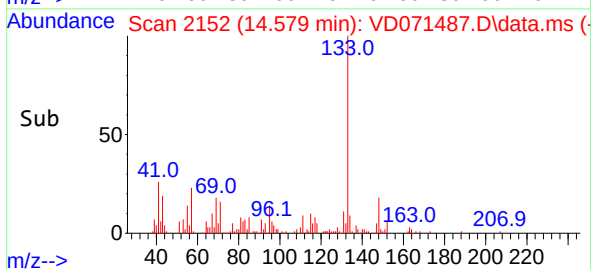
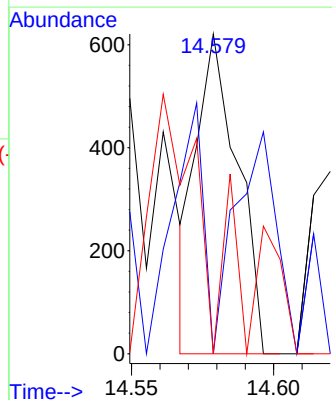
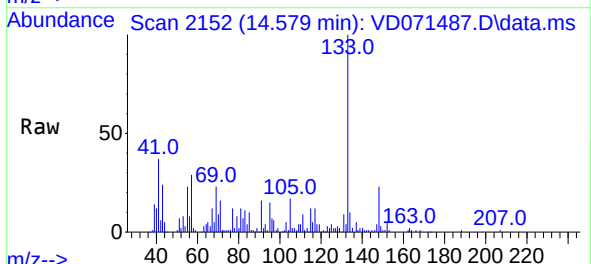
Instrument :
MSVOA_D
ClientSampleId :

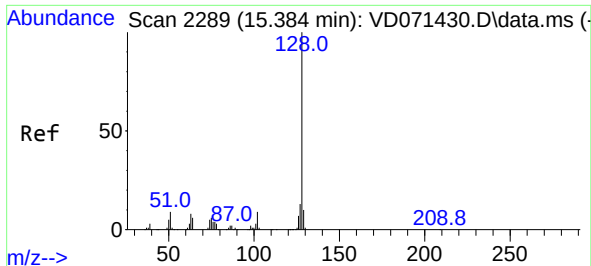
Tgt Ion:117 Resp: 13109
Ion Ratio Lower Upper
117 100
201 0.0 36.0 108.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 7.638 ug/l
RT: 14.579 min Scan# 2152
Delta R.T. 0.089 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

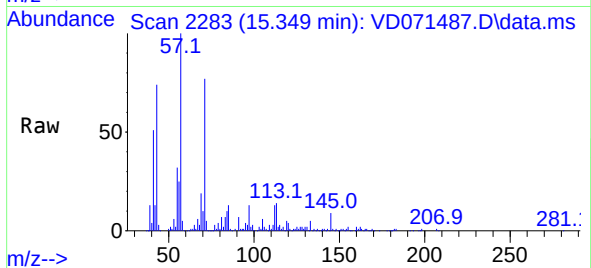
Tgt Ion: 75 Resp: 620
Ion Ratio Lower Upper
75 100
155 58.2 40.0 120.0
157 98.2 49.8 149.3



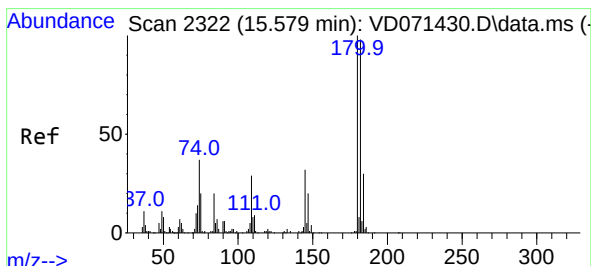
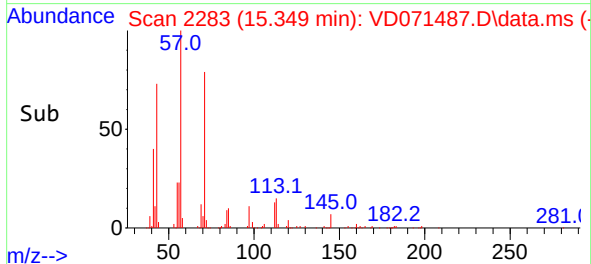
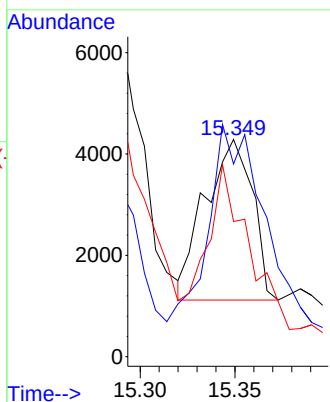


#95
Naphthalene
Concen: 4.835 ug/l
RT: 15.349 min Scan# 211
Delta R.T. -0.030 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Instrument :
MSVOA_D
ClientSampleId :



Tgt Ion:128 Resp: 5523
Ion Ratio Lower Upper
128 100
127 145.0 10.7 16.1#
129 88.6 8.7 13.1#



#96
1,2,3-Trichlorobenzene
Concen: 4.815 ug/l
RT: 15.596 min Scan# 2325
Delta R.T. 0.017 min
Lab File: VD071487.D
Acq: 27 Dec 2021 16:11

Tgt Ion:180 Resp: 2499
Ion Ratio Lower Upper
180 100
182 12.2 46.7 140.1#
145 0.0 15.9 47.6#

