

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016296.D
 Acq On : 28 May 2020 23:53
 Operator : SY/MD
 Sample : L2766-04DL 20X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 04:24:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 04:21:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	88088	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	84956	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	39297	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	20291	3.59	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	71.80%
7) Chloroethane-d5	1.58	69	20260	4.08	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.60%
11) 1,1-Dichloroethene-d2	2.13	63	32106	3.02	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.40%
20) 2-Butanone-d5	3.94	46	70286	50.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.16%
24) Chloroform-d	4.38	84	48168	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.60%
26) 1,2-Dichloroethane-d4	5.06	65	27482	4.61	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.20%
32) Benzene-d6	5.08	84	94689	4.50	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.00%
36) 1,2-Dichloropropane-d6	6.10	67	30841	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.80%
41) Toluene-d8	7.34	98	82848	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.60%
45) trans-1,3-Dichloropropene-	7.65	79	9054	3.73	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.60%
48) 2-Hexanone-d5	8.12	63	48584	43.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.30%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21353	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	30560	4.66	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
8) Chloroethane	1.60	64	470	0.109	ug/L #	65
16) Methylene chloride	2.52	84	1040	0.175	ug/L	85
25) Chloroform	4.41	83	1859	0.163	ug/L	95
27) 1,2-Dichloroethane	5.13	62	1878	0.251	ug/L #	79
33) Benzene	5.13	78	180045	7.365	ug/L	100
35) Methylcyclohexane	6.10	83	7565	0.704	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	4006	0.668	ug/L #	88
42) Toluene	7.41	91	2370	0.089	ug/L	99
43) 1,3,5-Trimethylbenzene	10.94	105	7156	0.295	ug/L	93
44) 1,2,4-Trimethylbenzene	10.94	105	7156	0.286	ug/L	99
46) trans-1,3-Dichloropropene	7.65	75	406	0.058	ug/L #	47
50) 2-Hexanone	8.12	43	7162	2.753	ug/L #	72
53) Chlorobenzene	8.91	112	18391	1.116	ug/L	98
54) Ethylbenzene	9.04	91	5310	0.179	ug/L	97
55) m,p-xylene	9.16	106	42607	3.823	ug/L	98
56) o-xylene	9.57	106	17571	1.655	ug/L	96
57) Styrene	9.57	104	951	0.054	ug/L #	1

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 04:21:25 2020
Response via : Initial Calibration

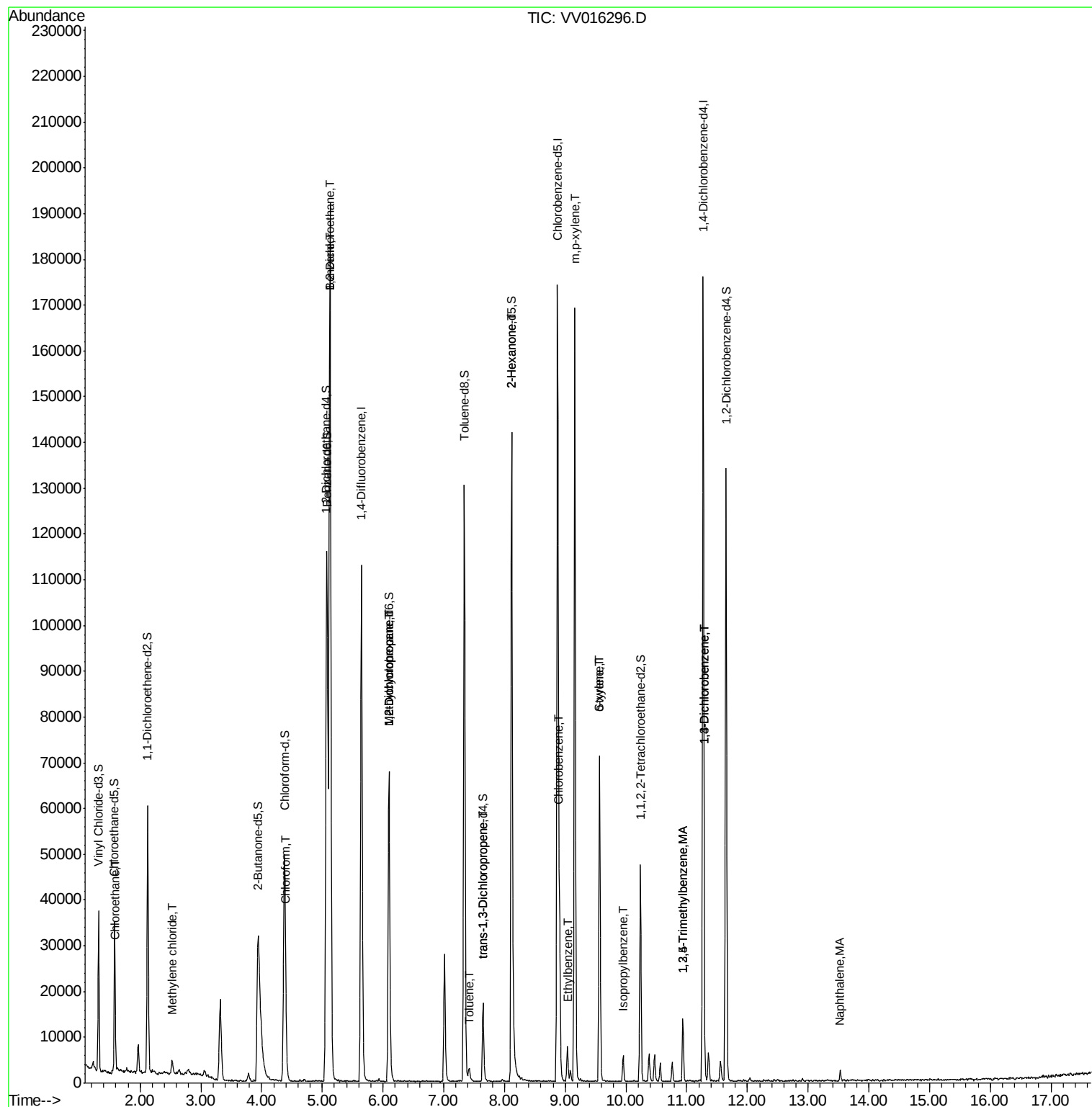
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) Isopropylbenzene	9.96	105	3366	0.116	ug/L	94
63) 1,3-Dichlorobenzene	11.30	146	1127	0.094	ug/L	93
64) 1,4-Dichlorobenzene	11.30	146	1127	0.092	ug/L	91
70) Naphthalene	13.53	128	1885	0.116	ug/L #	91

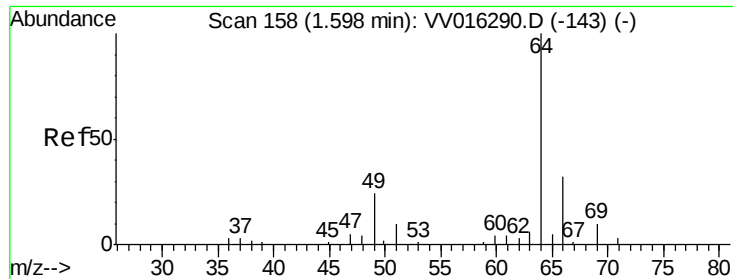
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 0.109 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

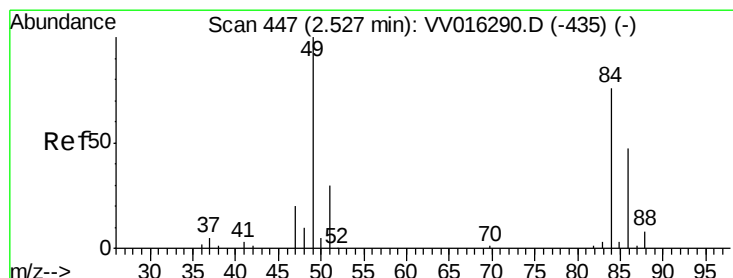
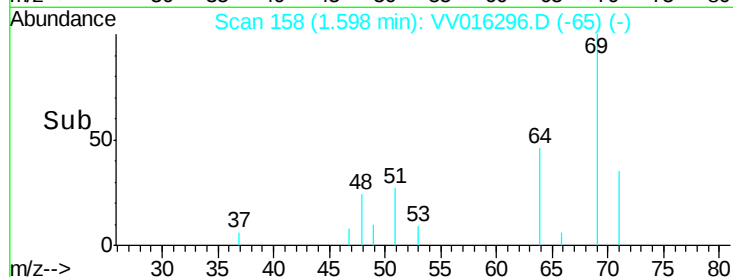
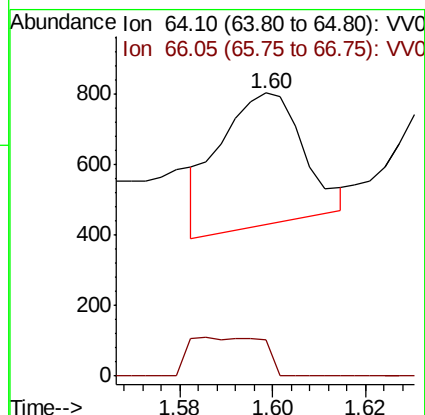
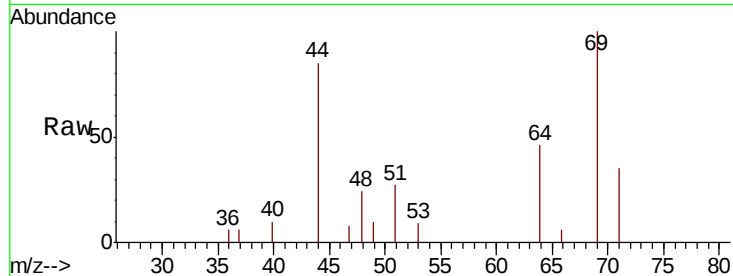
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 470

Ion Ratio Lower Upper

64 100

66 12.7 22.9 42.5#



#16

Methylene chloride

Concen: 0.175 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

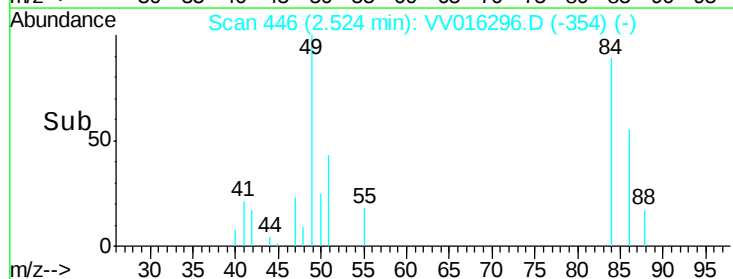
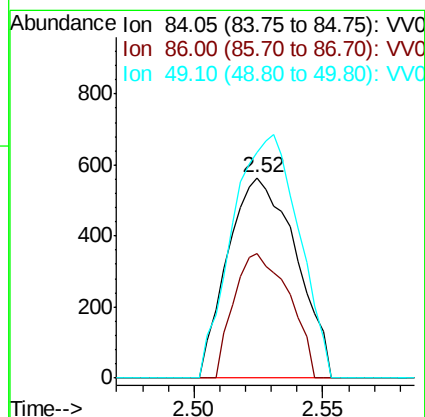
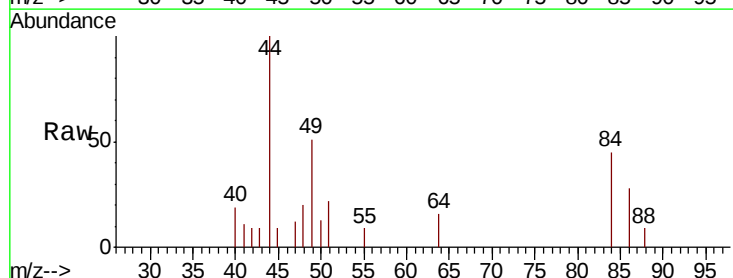
Tgt Ion: 84 Resp: 1040

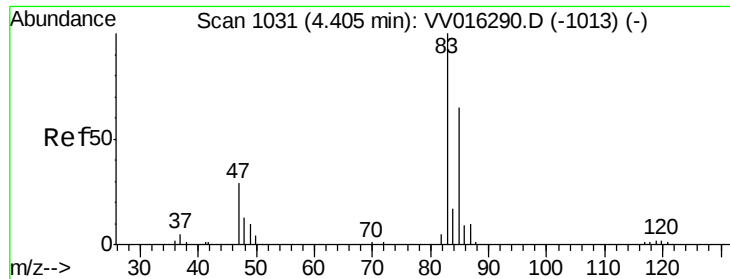
Ion Ratio Lower Upper

84 100

86 61.8 44.9 83.5

49 112.6 96.7 179.7

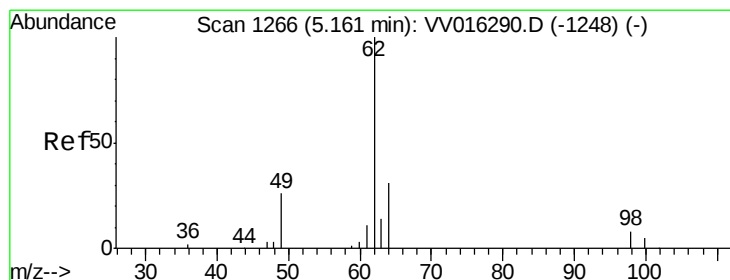
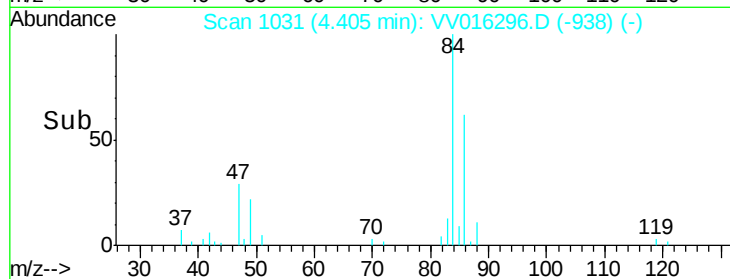
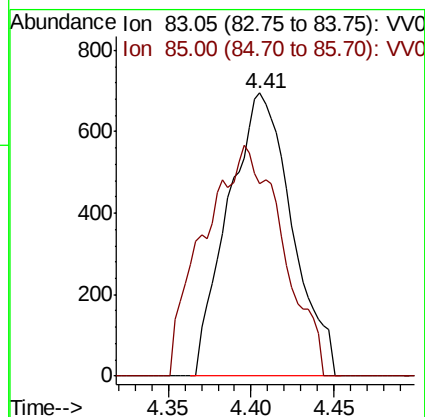
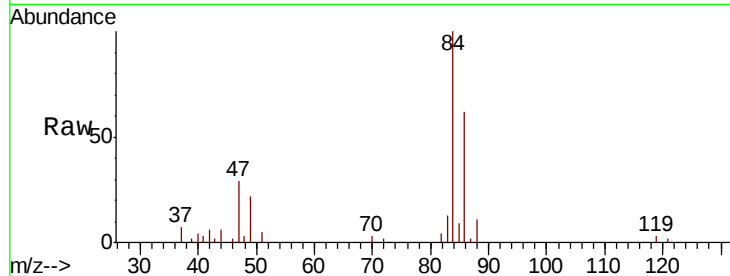




#25
Chloroform
Concen: 0.163 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.00 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

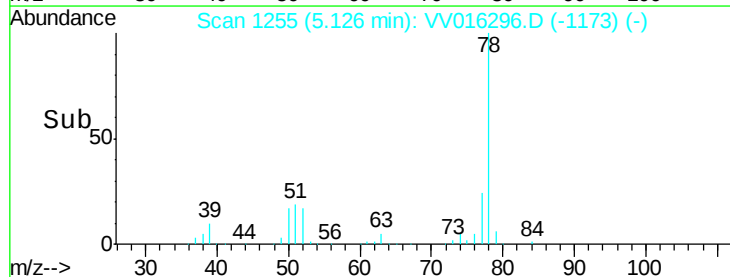
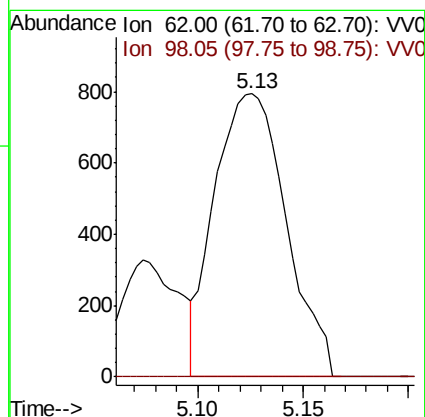
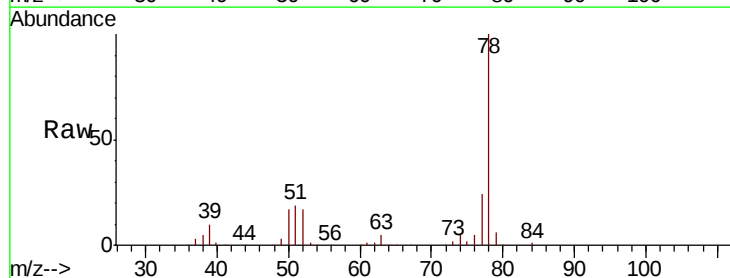
Instrument :
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ClientSampleId :

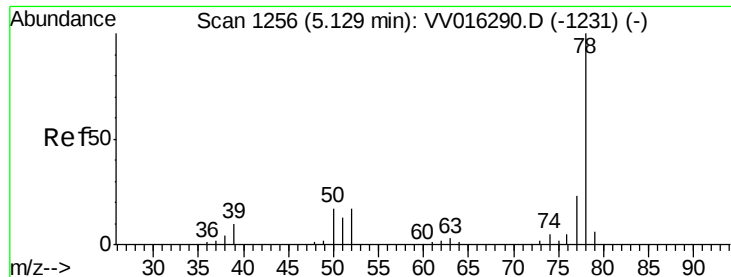
Tot Ion: 83 Resp: 1859
Ion Ratio Lower Upper
83 100
85 68.1 45.1 83.7



#27
1,2-Dichloroethane
Concen: 0.251 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. -0.04 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

Tgt Ion: 62 Resp: 1878
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#

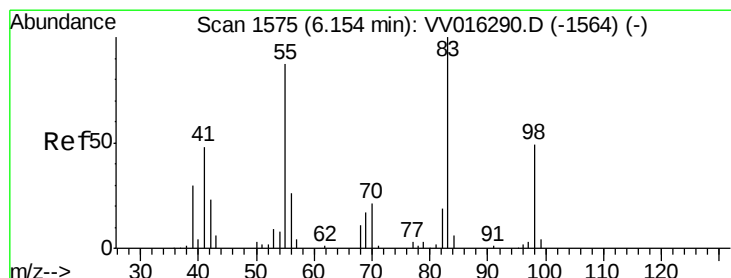
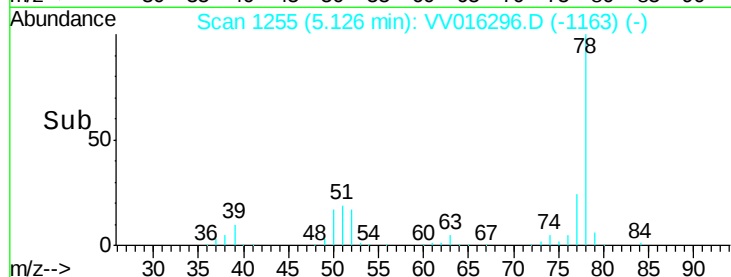
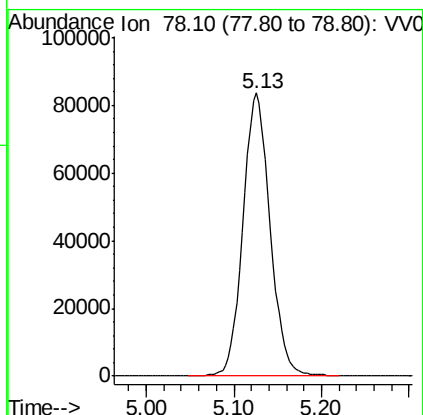
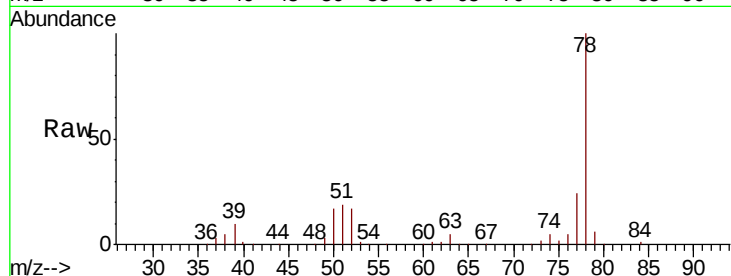




#33
Benzene
Concen: 7.365 ug/L
RT: 5.13 min Scan# 1255
Delta R.T. -0.00 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

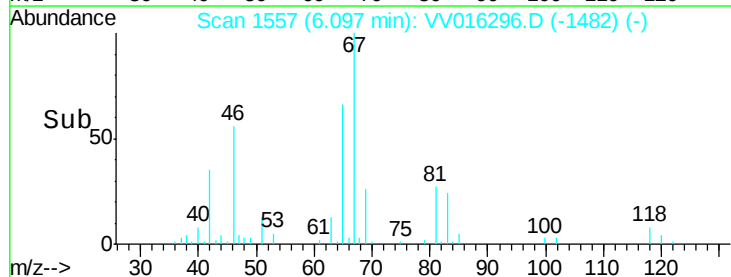
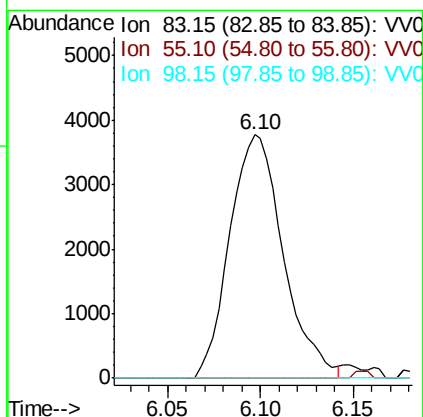
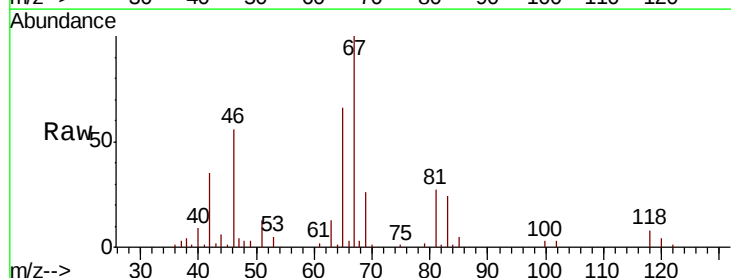
Instrument :
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ClientSampleId :

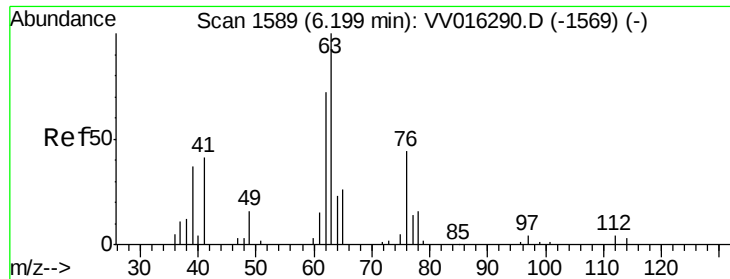
Tgt Ion: 78 Resp: 180045



#35
Methylcyclohexane
Concen: 0.704 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

Tgt Ion: 83 Resp: 7565
Ion Ratio Lower Upper
83 100
55 0.8 65.4 98.0#
98 0.9 39.3 58.9#

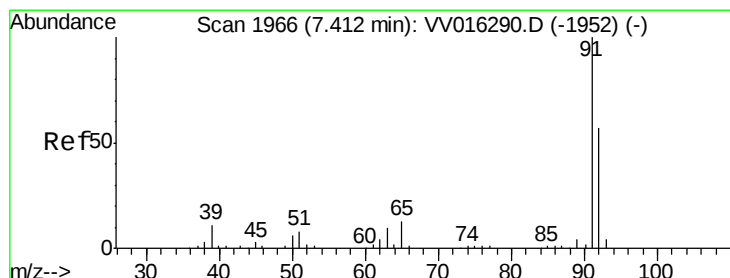
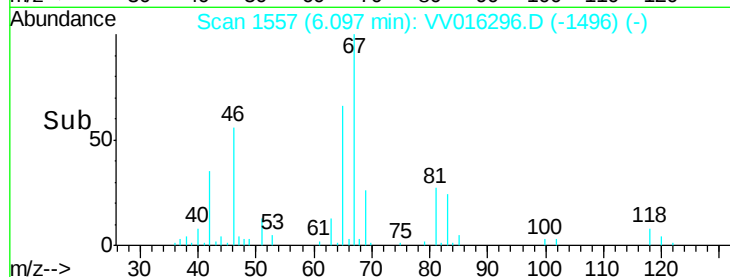
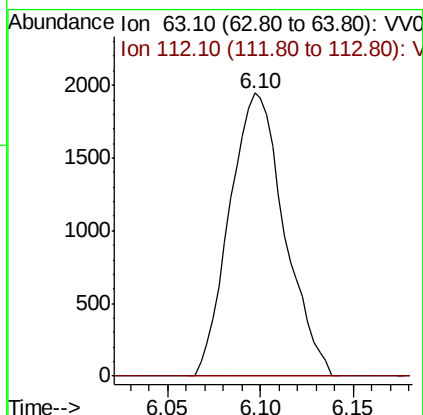
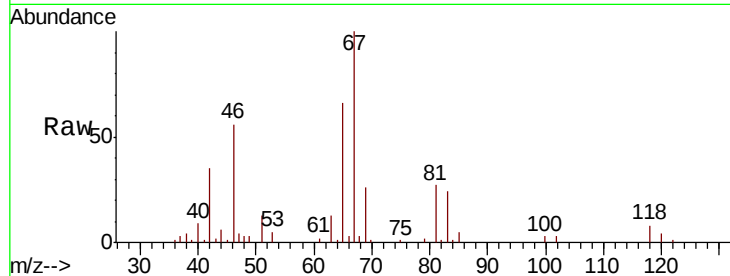




#37
 1,2-Dichloropropane
 Concen: 0.668 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016296.D
 Acq: 28 May 2020 23:53

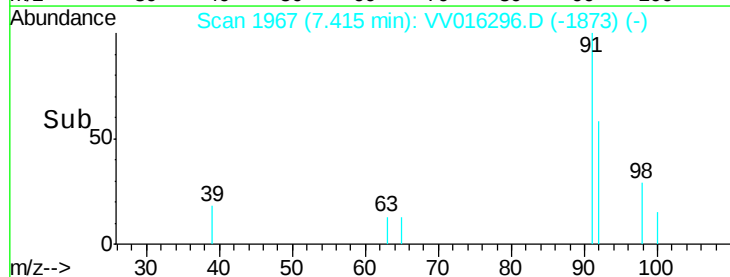
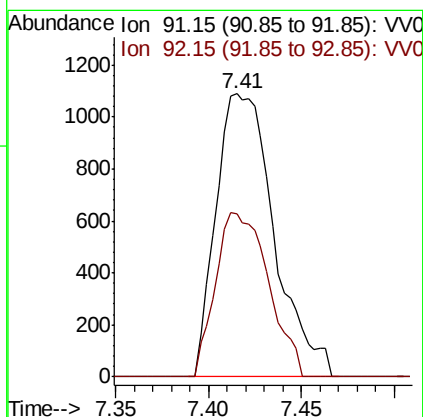
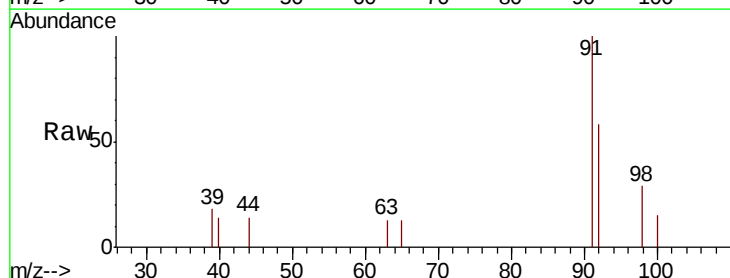
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 ClientSampleId :

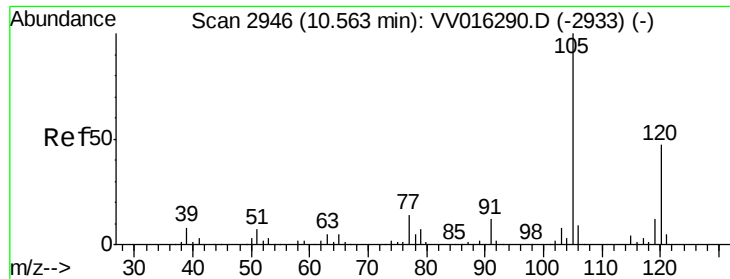
Tot Ion: 63 Resp: 4006
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#42
 Toluene
 Concen: 0.089 ug/L
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.00 min
 Lab File: VV016296.D
 Acq: 28 May 2020 23:53

Tgt Ion: 91 Resp: 2370
 Ion Ratio Lower Upper
 91 100
 92 57.6 40.9 76.0

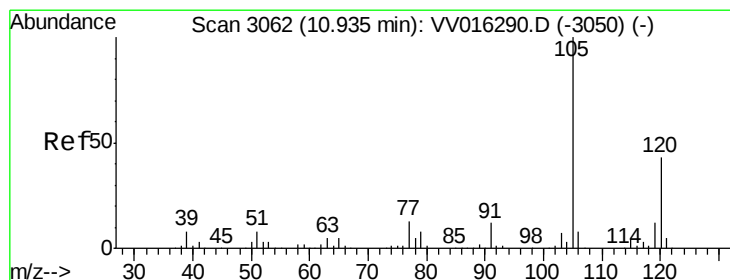
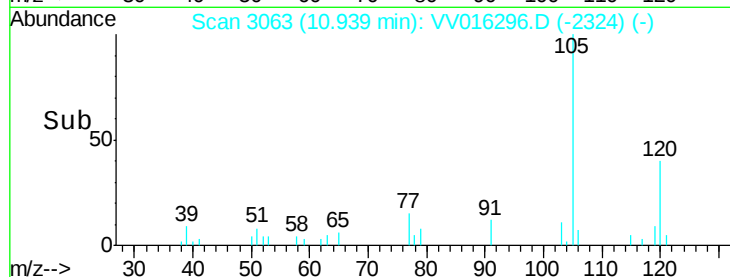
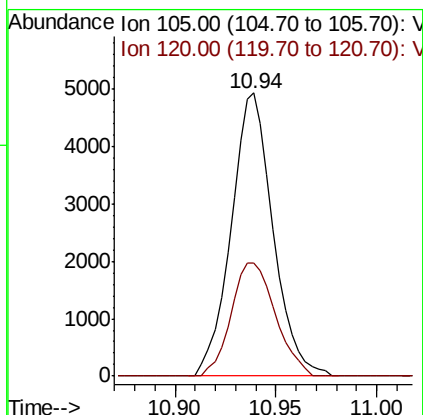
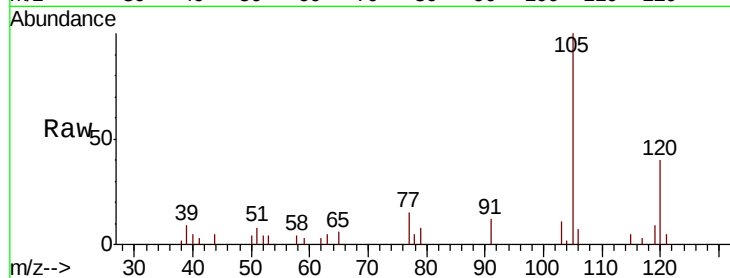




#43
 1,3,5-Trimethylbenzene
 Concen: 0.295 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.38 min
 Lab File: VV016296.D
 Acq: 28 May 2020 23:53

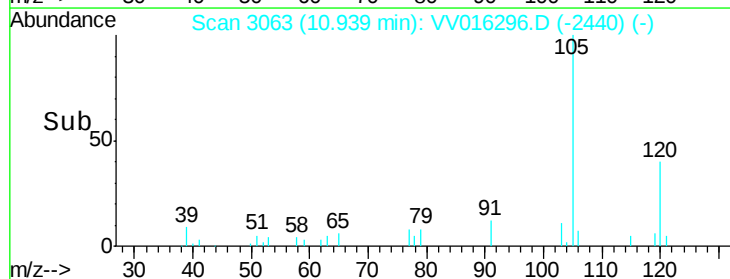
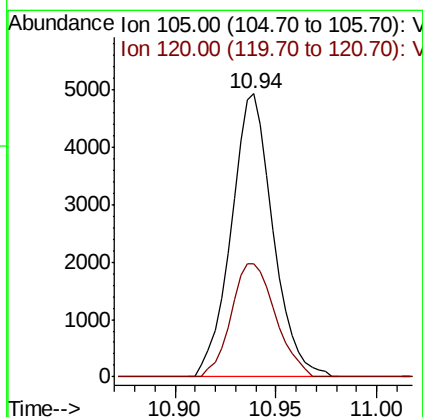
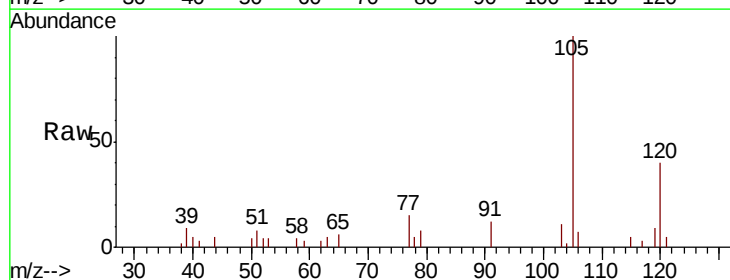
Instrument :
 MSVOA_V
 ClientSampled :

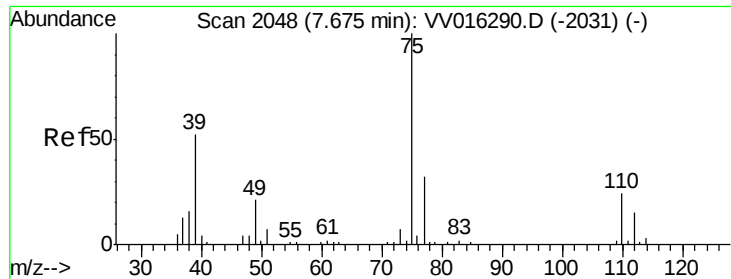
Tot Ion:105 Resp: 7156
 Ion Ratio Lower Upper
 105 100
 120 42.4 37.4 56.0



#44
 1,2,4-Trimethylbenzene
 Concen: 0.286 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV016296.D
 Acq: 28 May 2020 23:53

Tgt Ion:105 Resp: 7156
 Ion Ratio Lower Upper
 105 100
 120 42.4 34.6 52.0

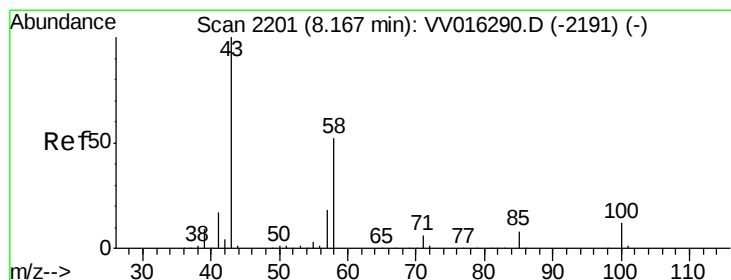
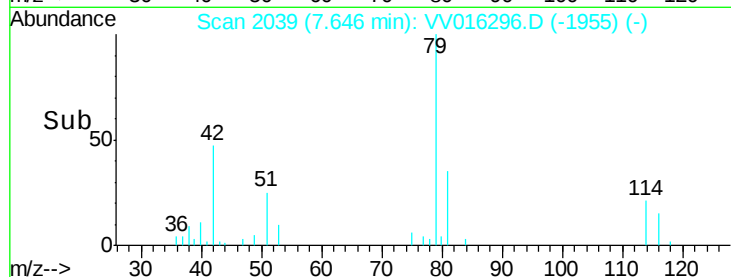
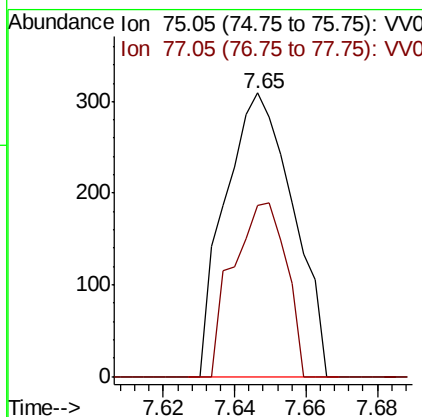
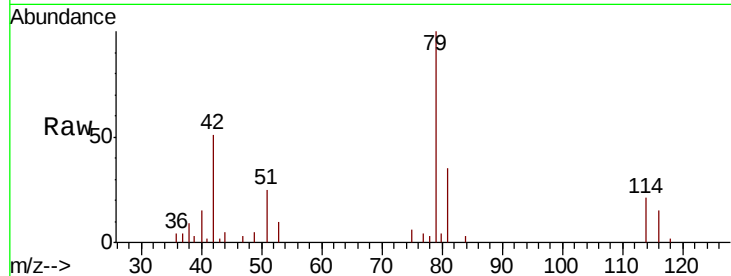




#46
trans-1,3-Dichloropropene
Concen: 0.058 ug/L
RT: 7.65 min Scan# 2039
Delta R.T. -0.03 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

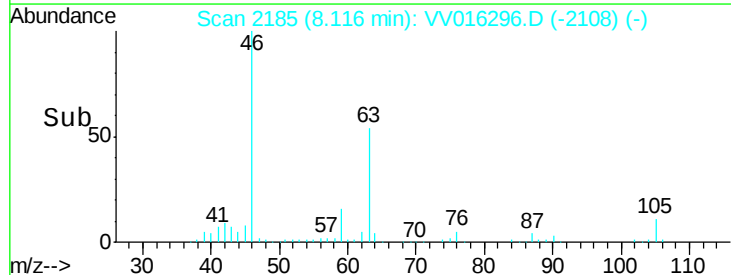
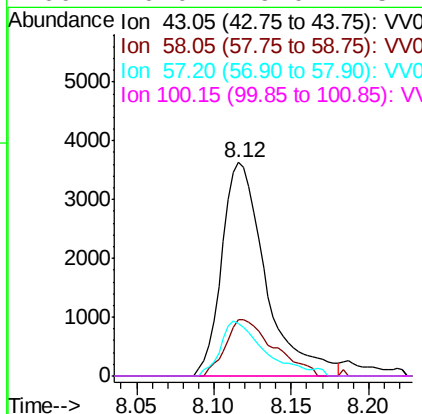
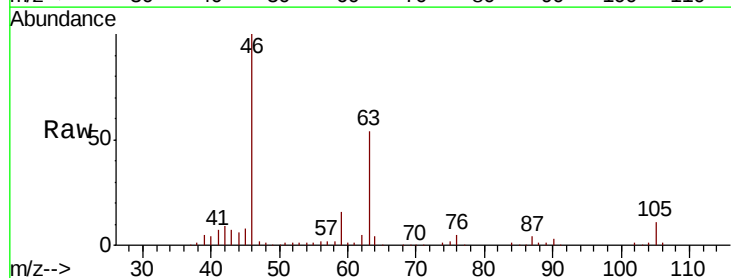
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ClientSampleId :

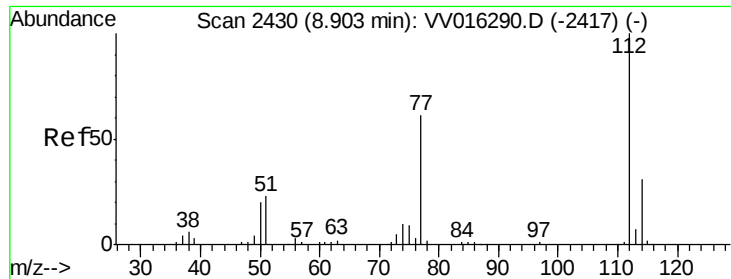
Tot Ion: 75 Resp: 406
Ion Ratio Lower Upper
75 100
77 60.2 21.7 40.3#



#50
2-Hexanone
Concen: 2.753 ug/L
RT: 8.12 min Scan# 2185
Delta R.T. -0.05 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

Tgt Ion: 43 Resp: 7162
Ion Ratio Lower Upper
43 100
58 28.8 41.4 62.0#
57 25.2 15.0 22.4#
100 0.0 9.0 13.4#

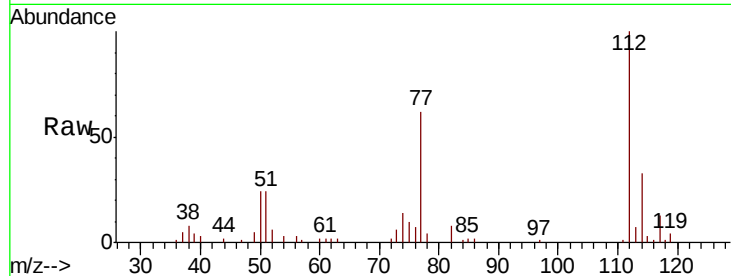




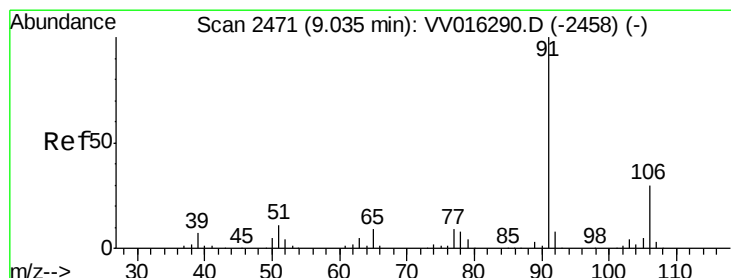
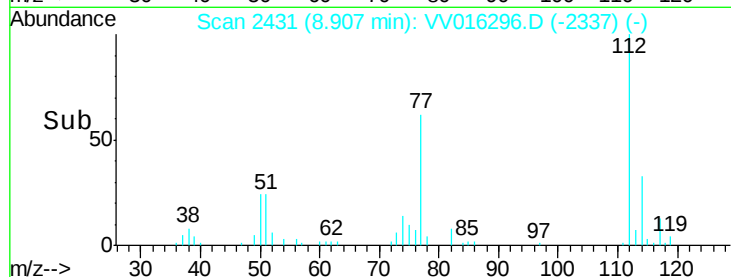
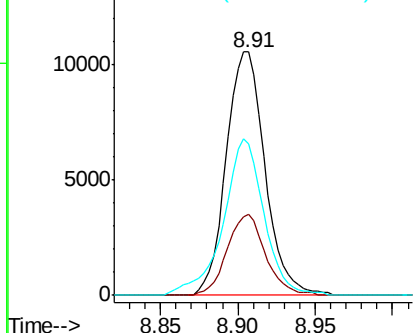
#53
Chlorobenzene
Concen: 1.116 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.00 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 18391
Ion Ratio Lower Upper
112 100
114 33.2 22.3 41.3
77 62.3 50.7 76.1

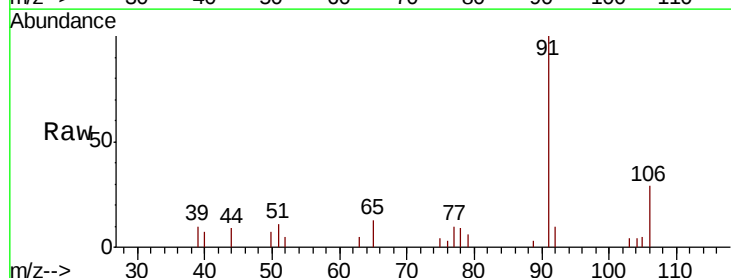


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

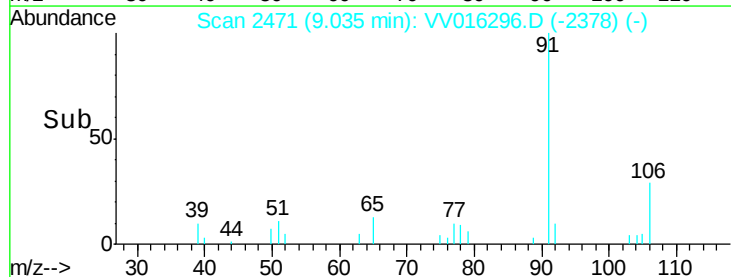
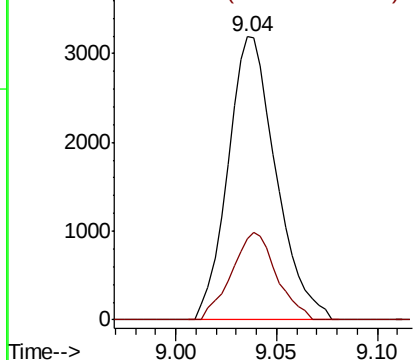


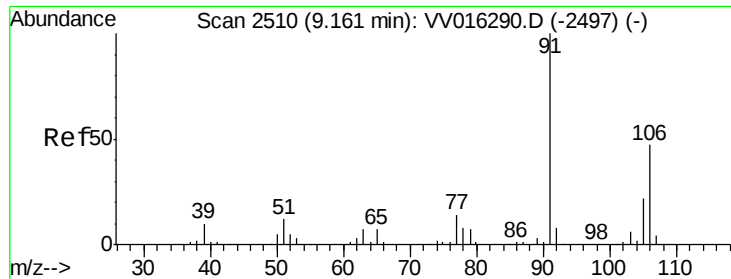
#54
Ethylbenzene
Concen: 0.179 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016296.D
Acq: 28 May 2020 23:53

Tgt Ion: 91 Resp: 5310
Ion Ratio Lower Upper
91 100
106 28.6 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 3.823 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

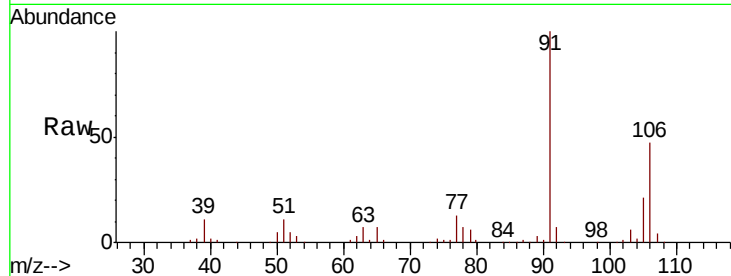
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 42607

Ion Ratio Lower Upper

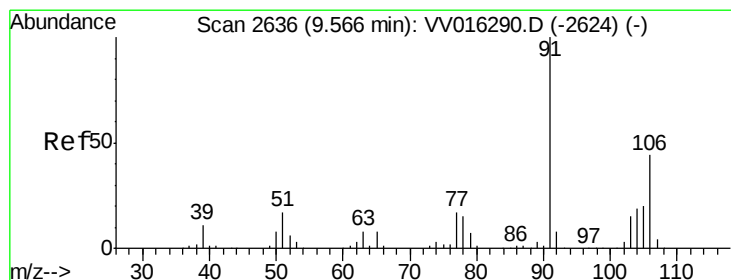
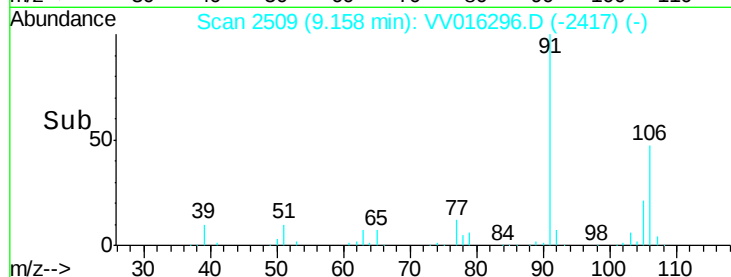
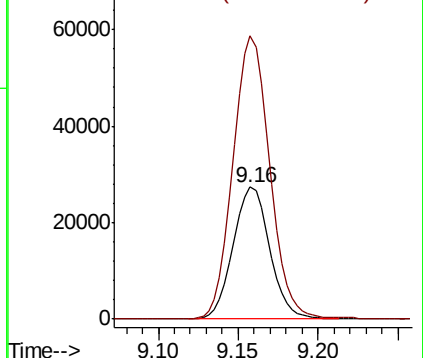
106 100

91 214.8 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 1.655 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016296.D

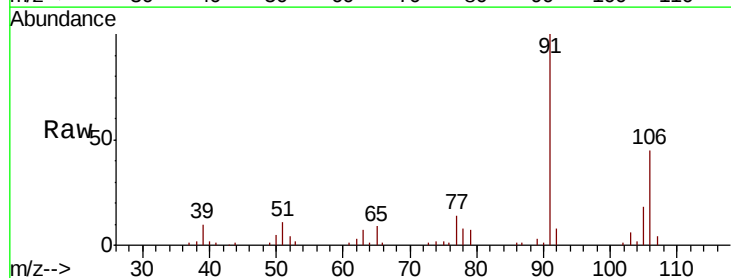
Acq: 28 May 2020 23:53

Tgt Ion:106 Resp: 17571

Ion Ratio Lower Upper

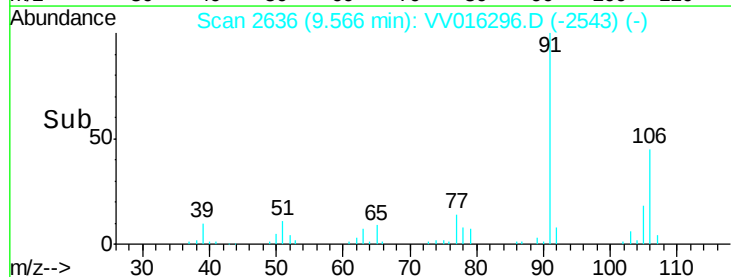
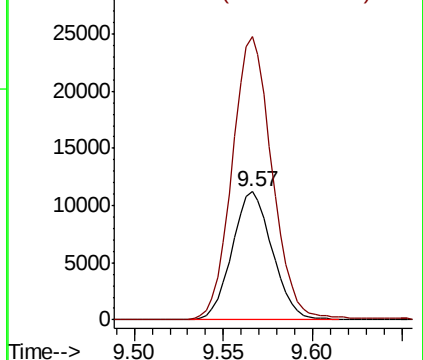
106 100

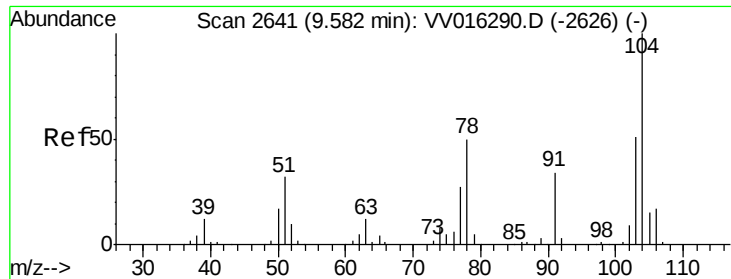
91 220.9 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#57

Stvrene

Concen: 0.054 ug/L

RT: 9.57 min Scan# 2637

Delta R.T. -0.01 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

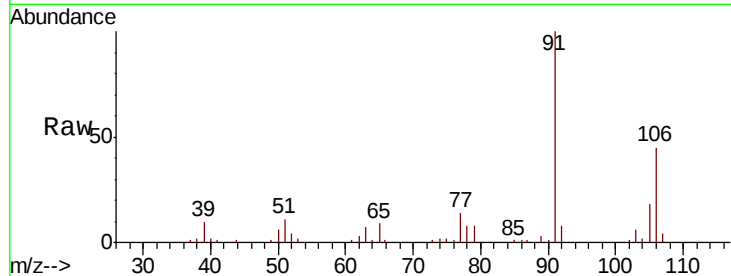
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 951

Ion Ratio Lower Upper

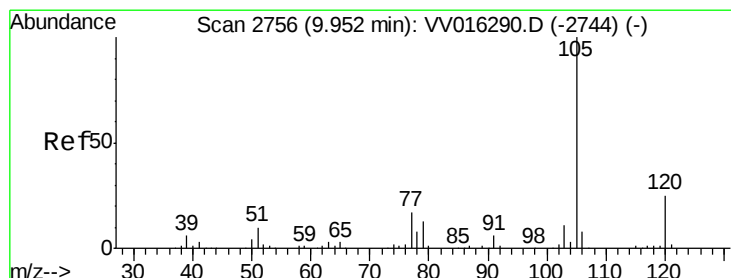
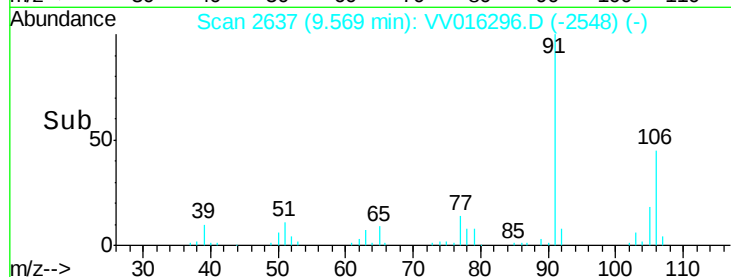
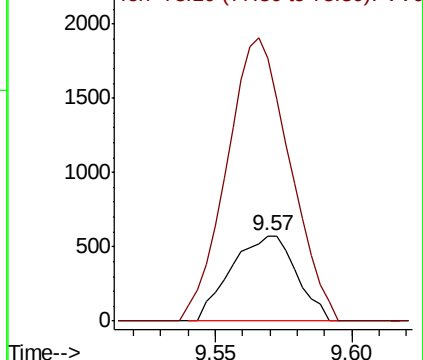
104 100

78 308.7 33.2 61.7#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#58

Isopropylbenzene

Concen: 0.116 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

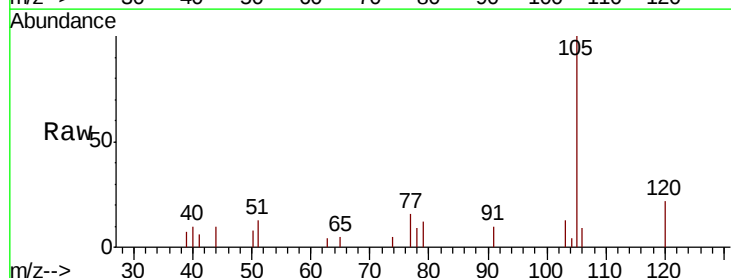
Tgt Ion:105 Resp: 3366

Ion Ratio Lower Upper

105 100

120 21.7 20.9 31.3

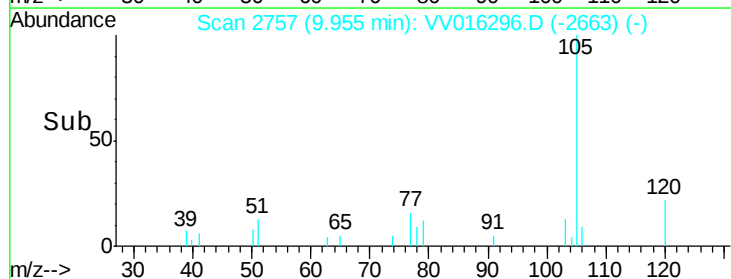
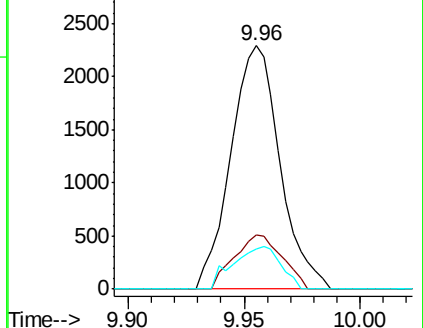
77 16.8 13.9 20.9

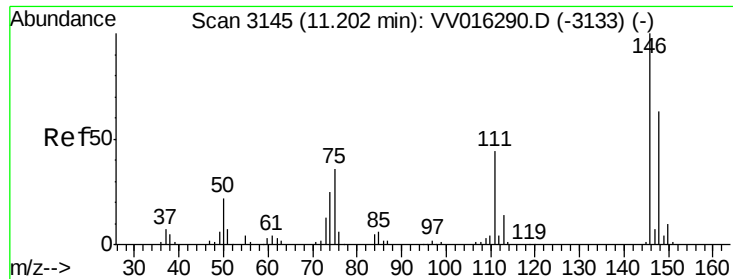


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#63

1,3-Dichlorobenzene

Concen: 0.094 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.09 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

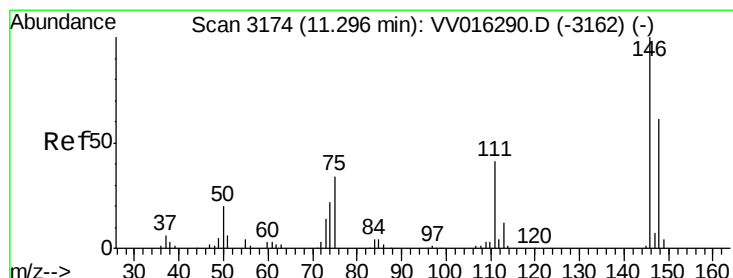
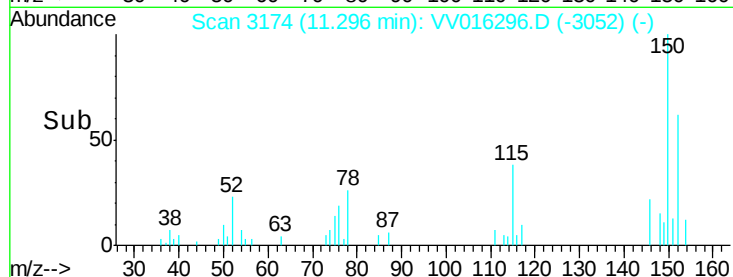
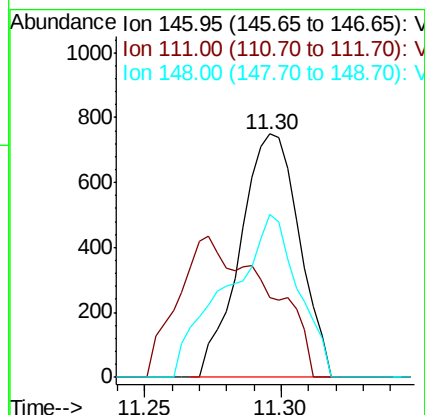
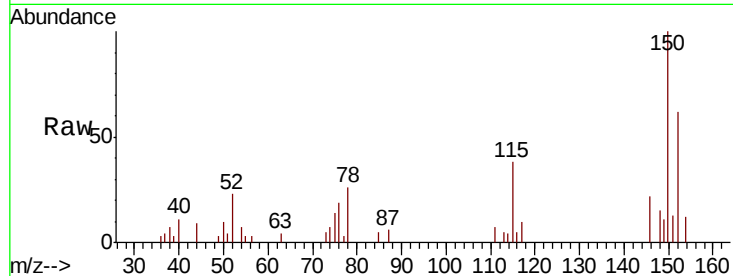
Instrument :

MSVOA_V

ClientSampled :

Tot Ion:146 Resp: 1127

Ion	Ratio	Lower	Upper
146	100		
111	32.5	29.7	55.1
148	67.1	45.9	85.3



#64

1,4-Dichlorobenzene

Concen: 0.092 ug/L

RT: 11.30 min Scan# 3174

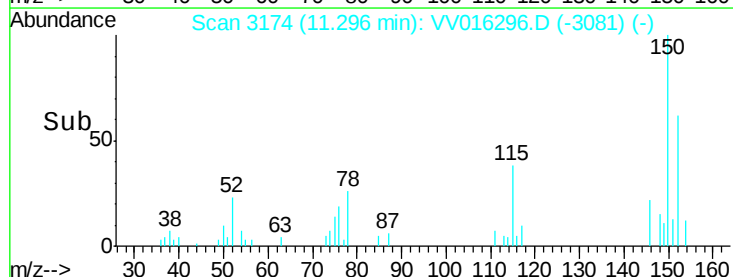
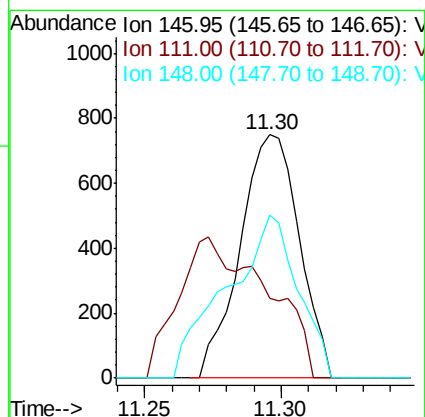
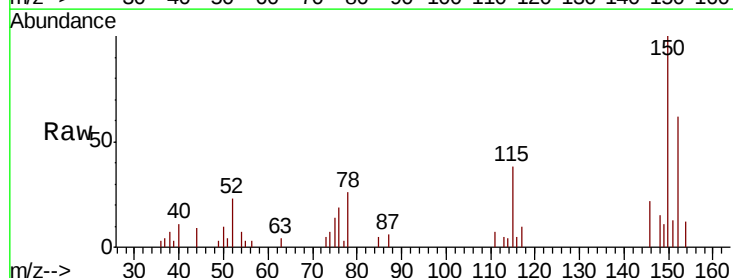
Delta R.T. 0.00 min

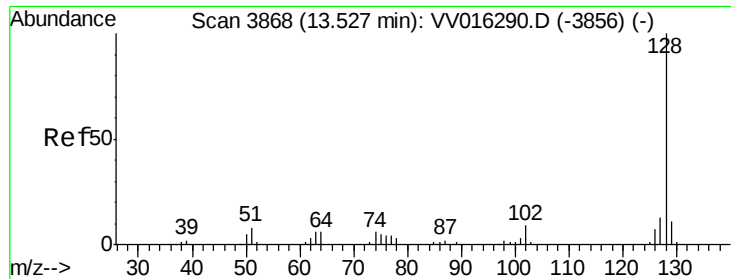
Lab File: VV016296.D

Acq: 28 May 2020 23:53

Tgt Ion:146 Resp: 1127

Ion	Ratio	Lower	Upper
146	100		
111	32.5	28.3	52.7
148	67.1	43.3	80.3





#70

Naphthalene

Concen: 0.116 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016296.D

Acq: 28 May 2020 23:53

Instrument :

MSVOA_V

ClientSampleId :

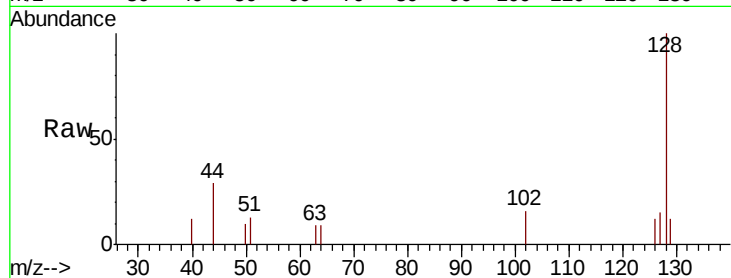
Tot Ion:128 Resp: 1885

Ion Ratio Lower Upper

128 100

129 5.6 8.6 13.0#

127 11.4 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

