

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020419\
 Data File : VL033155.D
 Acq On : 4 Feb 2019 13:11
 Operator : SY/AP
 Sample : VSTDIC0.03
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Manual Integrations
 APPROVED

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 2/5/2019 10:27:29 AM

Quant Time: Feb 04 14:21:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL020419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Feb 01 22:01:04 2019
 QLast Update : Fri Feb 01 22:01:04 2019
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.760	49	1179341	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.290	114	3240798	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.239	117	3141539	10.00	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.576	95	2462879	10.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%
Target Compounds						
						Qvalue
5) Vinyl Chloride	3.297	62	2702	0.02	ppbv	98
32) 1,1,1-Trichloroethane	6.618	97	6520m	0.03	ppbv	
35) Carbon Tetrachloride	7.133	117	5365	0.02	ppbv #	74
38) Trichloroethene	7.959	130	3898m	0.03	ppbv	
52) Tetrachloroethene	11.371	164	3781m	0.03	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.833	83	9143m	0.03	ppbv	

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

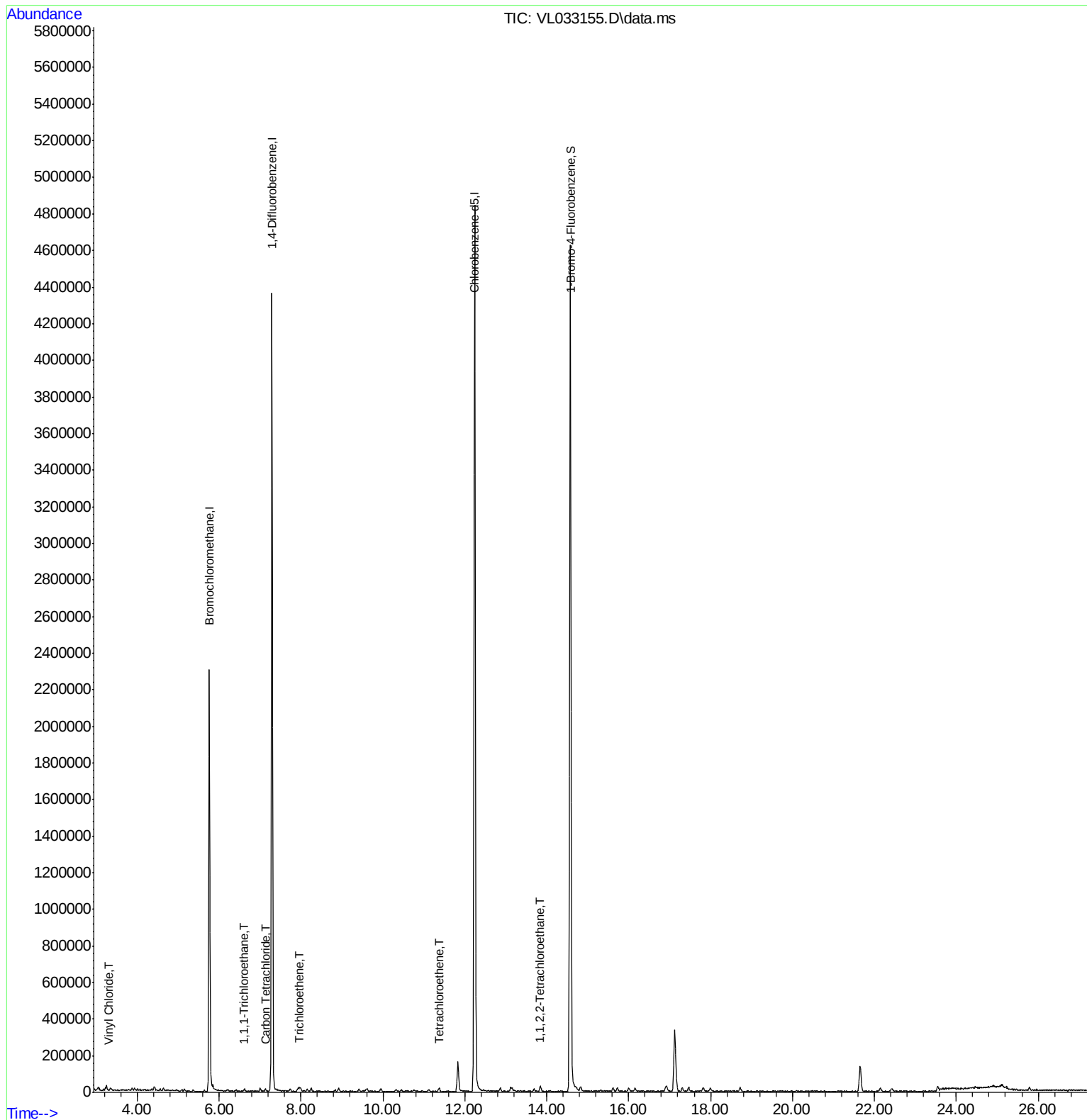
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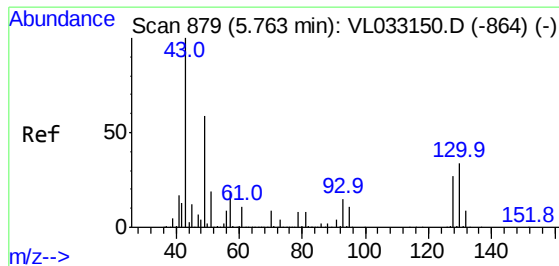
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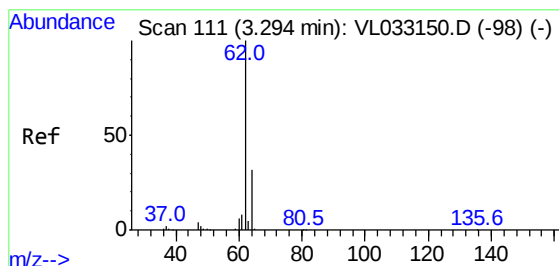
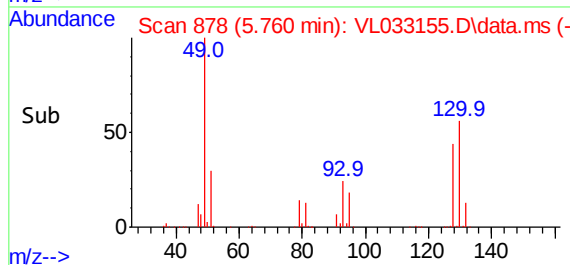
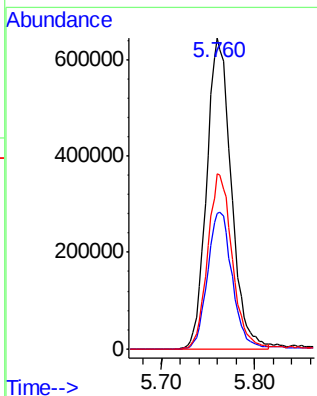
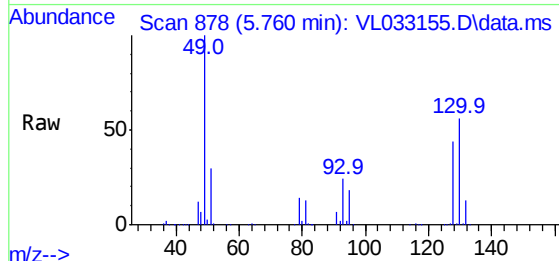
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.760 min Scan# 878
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 49 Resp: 1179341
Ion Ratio Lower Upper
49 100
128 45.0 23.2 69.5
130 57.3 29.5 88.6

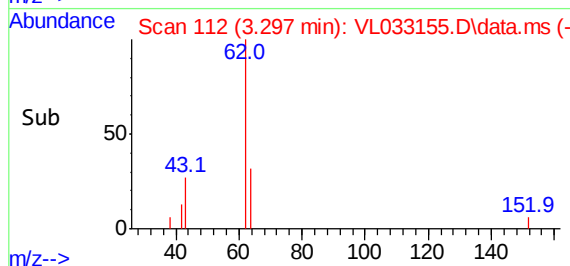
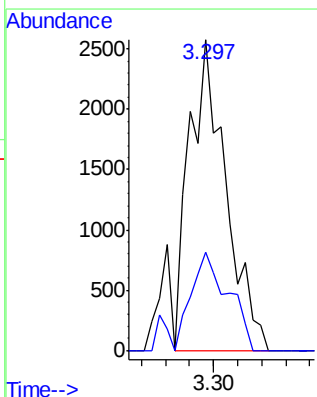
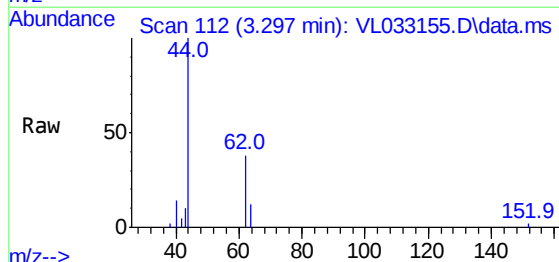
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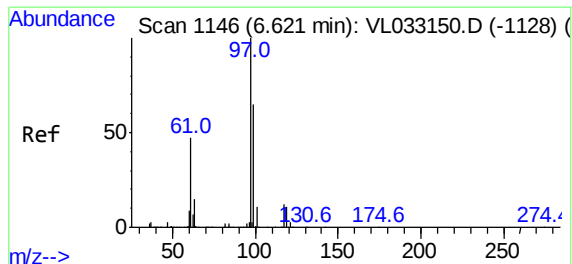
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#5
Vinyl Chloride
Concen: 0.02 ppbv
RT: 3.297 min Scan# 112
Delta R.T. 0.007 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion: 62 Resp: 2702
Ion Ratio Lower Upper
62 100
64 31.6 26.3 39.5





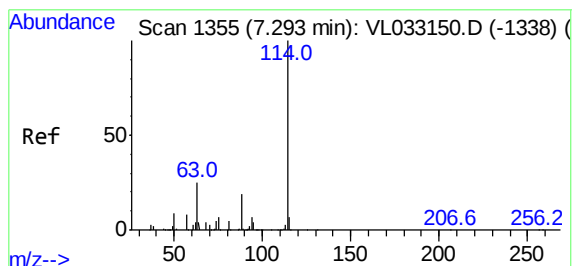
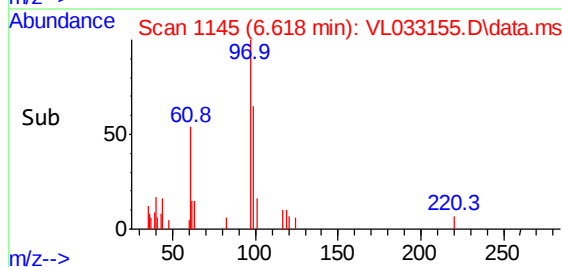
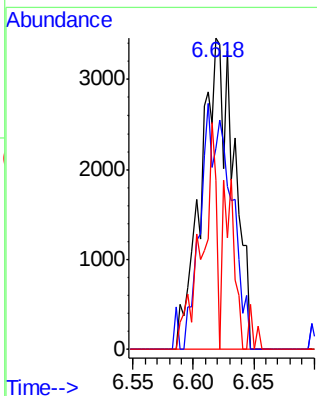
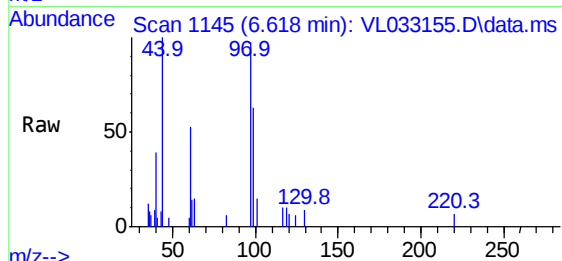
#32
1,1,1-Trichloroethane
Concen: 0.03 ppbv m
RT: 6.618 min Scan# 1145
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion: 97 Resp: 6520
Ion Ratio Lower Upper
97 100
99 0.0 65.1 97.7#
61 31.2 47.7 71.5#

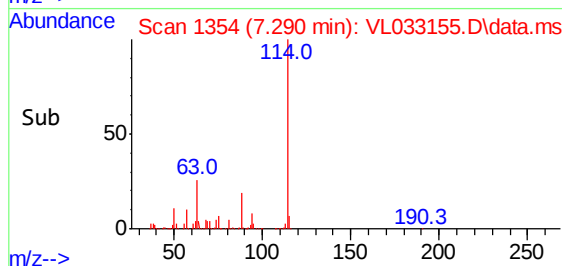
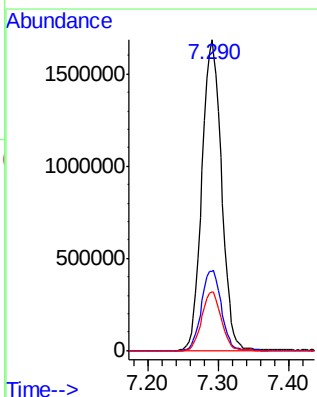
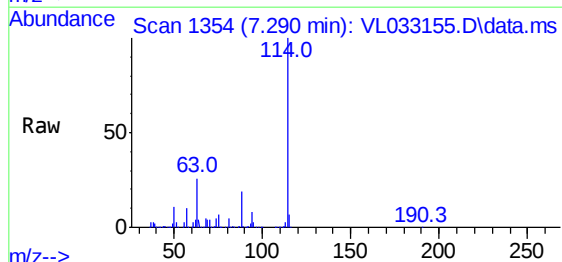
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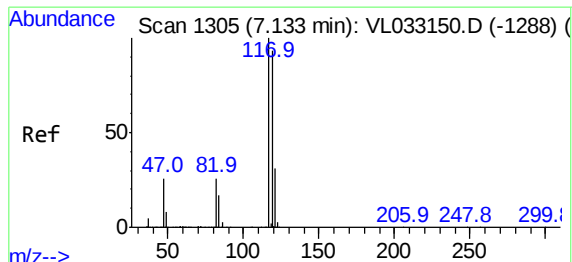
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.290 min Scan# 1354
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion: 114 Resp: 3240798
Ion Ratio Lower Upper
114 100
63 26.2 20.0 30.0
88 18.7 14.4 21.6





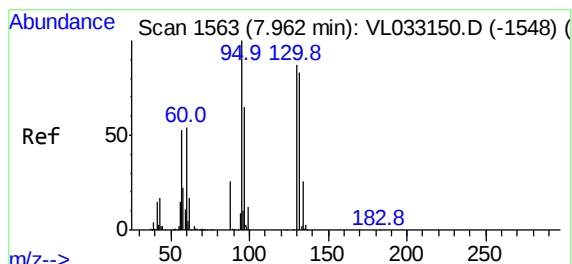
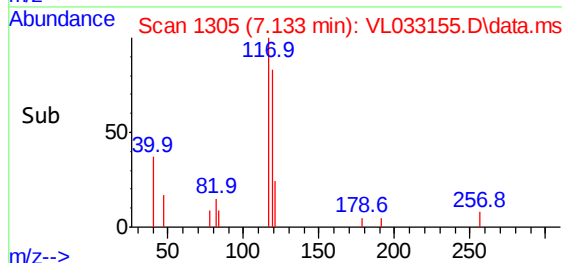
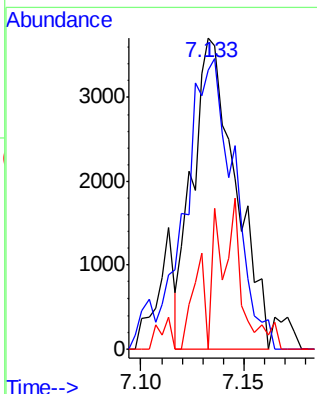
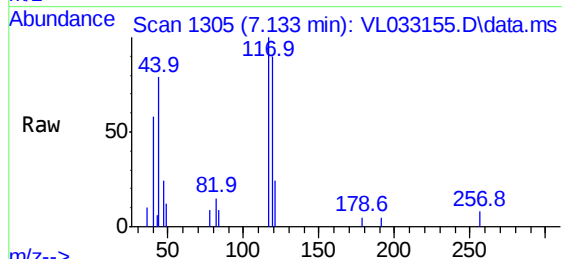
#35
Carbon Tetrachloride
Concen: 0.02 ppbv
RT: 7.133 min Scan# 1305
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion:117 Resp: 5365
Ion Ratio Lower Upper
117 100
119 80.5 76.6 114.8
121 0.0 25.0 37.4#

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

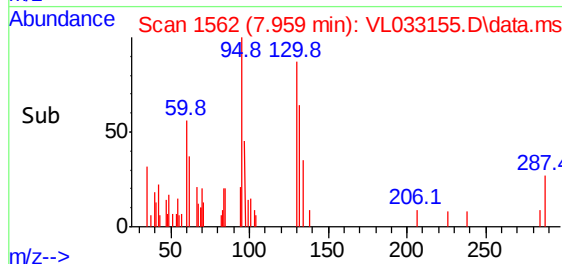
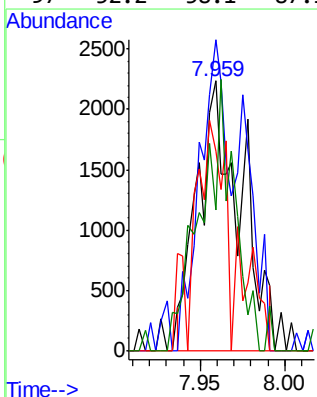
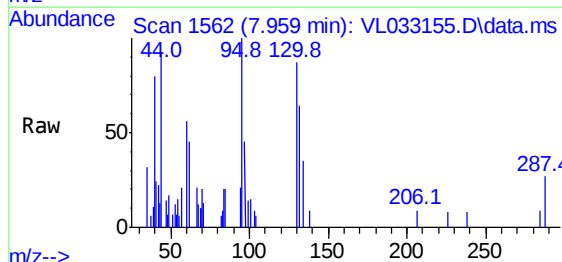
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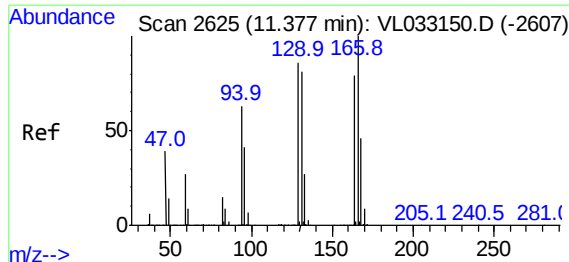
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#38
Trichloroethene
Concen: 0.03 ppbv m
RT: 7.959 min Scan# 1562
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion:130 Resp: 3898
Ion Ratio Lower Upper
130 100
95 115.4 91.6 137.4
132 74.2 79.0 118.4#
97 52.2 58.1 87.1#





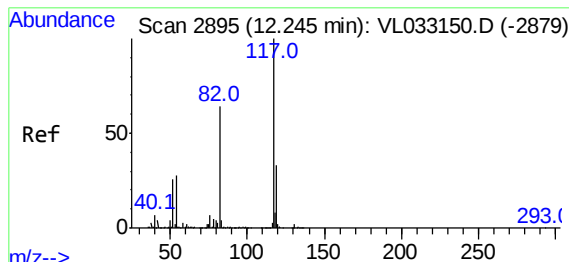
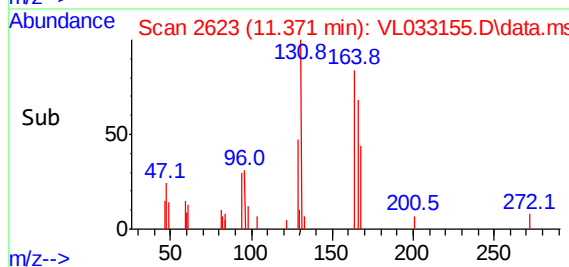
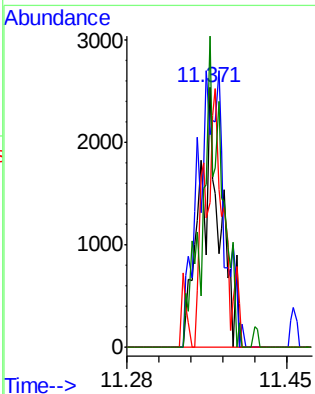
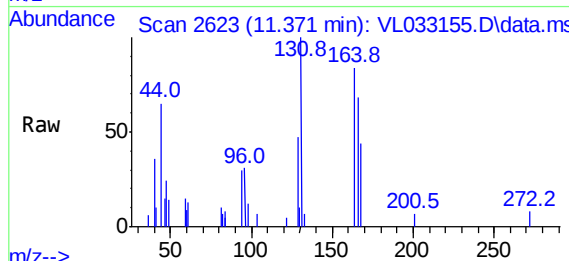
#52
Tetrachloroethene
Concen: 0.03 ppbv m
RT: 11.371 min Scan# 2623
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

Tgt Ion:	164	Resp:	3781
Ion	Ratio	Lower	Upper
164	100		
166	82.0	98.6	148.0#
129	55.8	86.3	129.5#
131	119.7	83.7	125.5

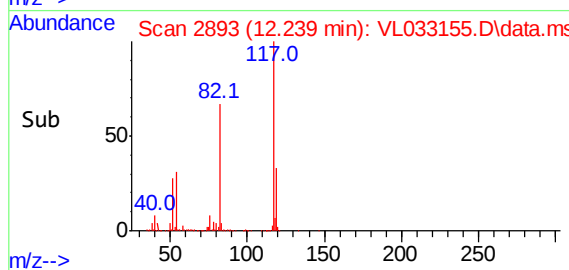
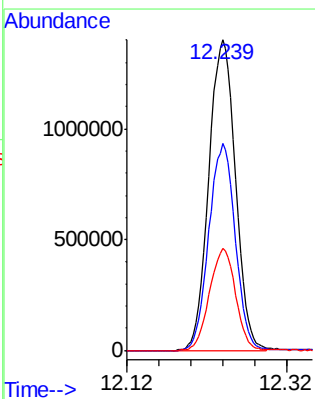
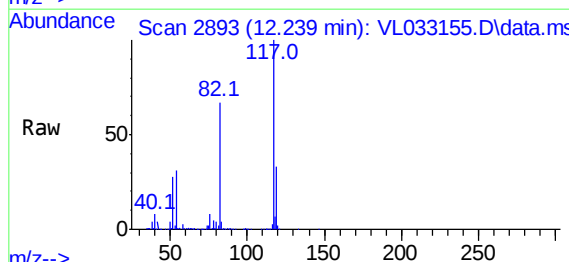
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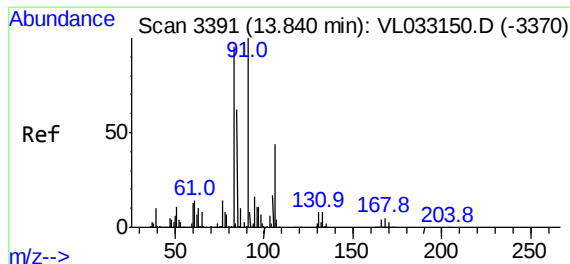
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#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.239 min Scan# 2893
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion:	117	Resp:	3141539
Ion	Ratio	Lower	Upper
117	100		
82	66.1	49.3	73.9
119	32.4	27.1	40.7





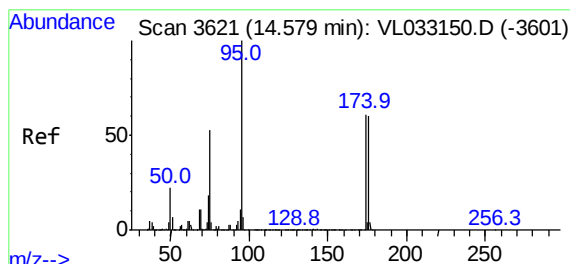
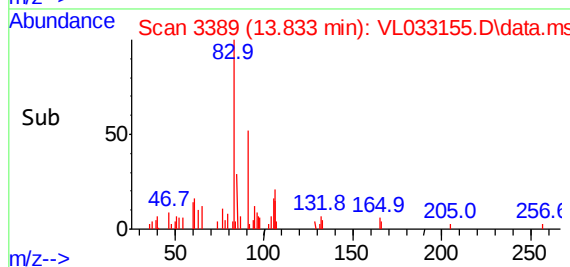
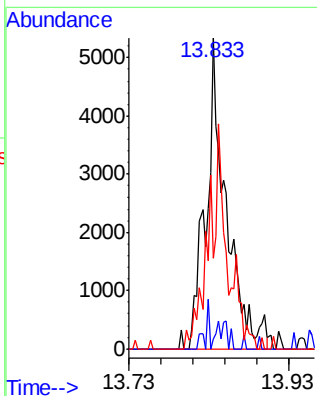
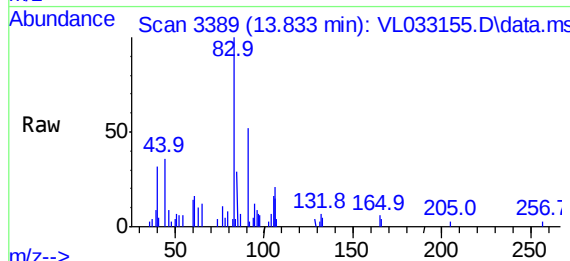
#63
1,1,2,2-Tetrachloroethane
Concen: 0.03 ppbv m
RT: 13.833 min Scan# 3389
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion: 83 Resp: 9143
Ion Ratio Lower Upper
83 100
131 8.3 4.5 13.7
85 67.3 32.5 97.4

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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2/5/2019 10:27:29 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.38 ppbv
RT: 14.576 min Scan# 3620
Delta R.T. 0.003 min
Lab File: VL033155.D
Acq: 4 Feb 2019 13:11

Tgt Ion: 95 Resp: 2462879
Ion Ratio Lower Upper
95 100
174 60.0 49.2 73.8
175 4.3 3.7 5.5

