

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
 Data File : VL033260.D
 Acq On : 8 Mar 2019 15:18
 Operator : SY/AP
 Sample : VSTDIC0.1
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Manual Integrations
 APPROVED

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 3/11/2019 10:10:16 AM

Quant Time: Mar 08 17:33:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 08 16:12:14 2019
 QLast Update : Fri Mar 08 16:12:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1093678	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2440502	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2491285	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2002964	10.60	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.29	62	5323m	0.074	ppbv	
32) 1,1,1-Trichloroethane	6.62	97	16317m	0.090	ppbv	
35) Carbon Tetrachloride	7.12	117	15530	0.084	ppbv	87
38) Trichloroethene	7.96	130	7273	0.084	ppbv #	67
52) Tetrachloroethene	11.37	164	7076m	0.083	ppbv	
63) 1,1,2,2-Tetrachloroethane	13.83	83	17312m	0.087	ppbv	

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

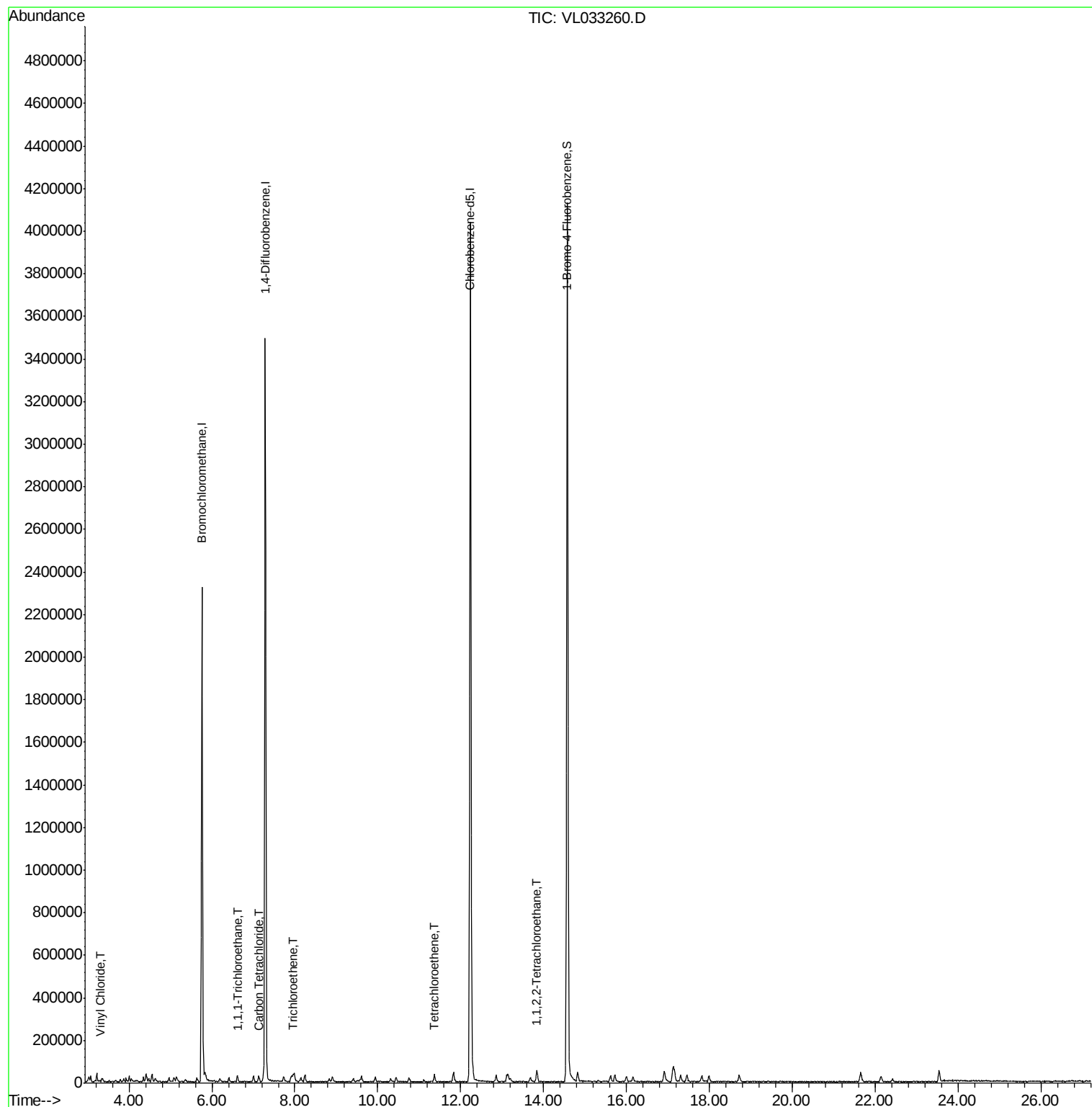
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030819\
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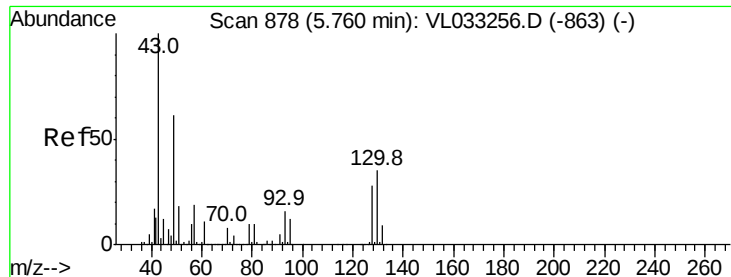
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030819AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 08 16:12:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.1

Tot Ion: 49 Resp: 1093678

Ion Ratio Lower Upper

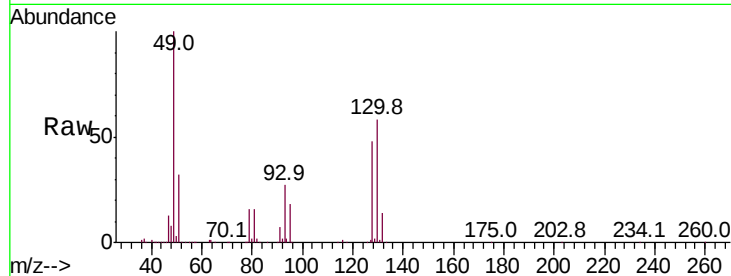
49 100

128 45.9 22.5 67.5

130 59.5 29.1 87.4

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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

800000

600000

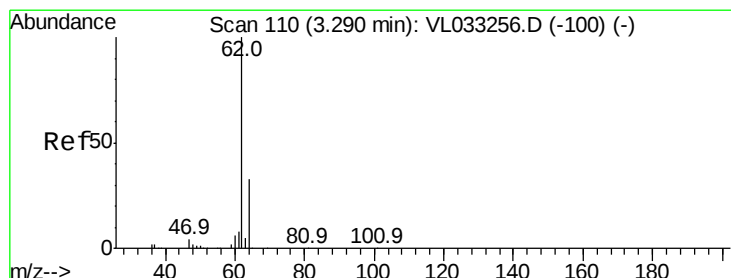
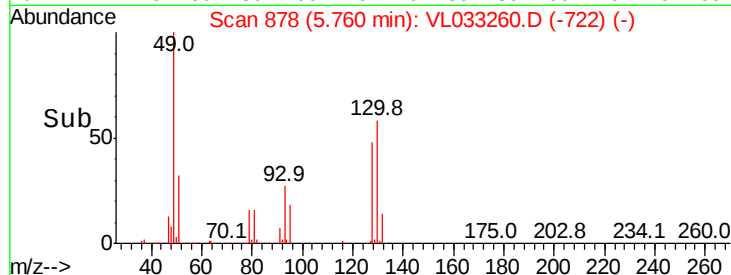
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#5

Vinyl Chloride

Concen: 0.074 ppbv m

RT: 3.29 min Scan# 111

Delta R.T. 0.00 min

Lab File: VL033260.D

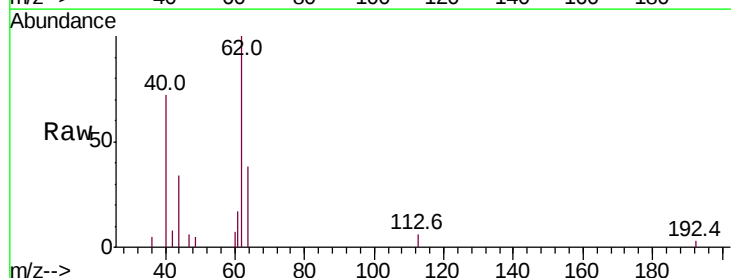
Acq: 8 Mar 2019 15:18

Tgt Ion: 62 Resp: 5323

Ion Ratio Lower Upper

62 100

64 37.7 26.4 39.6



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

5000

4000

3000

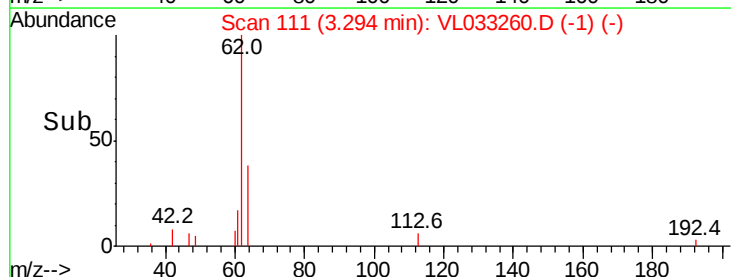
2000

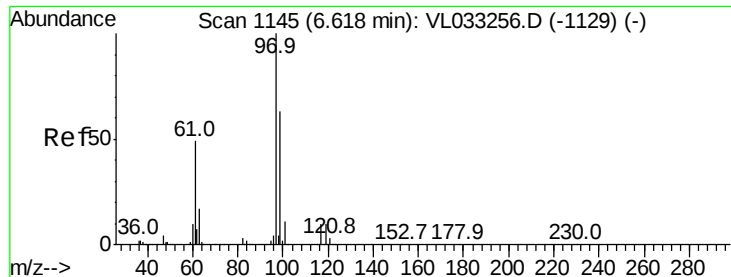
1000

0

3.25 3.30 3.35

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.090 ppbv m

RT: 6.62 min Scan# 1144

Delta R.T. -0.00 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Instrument :

MSVOA_L

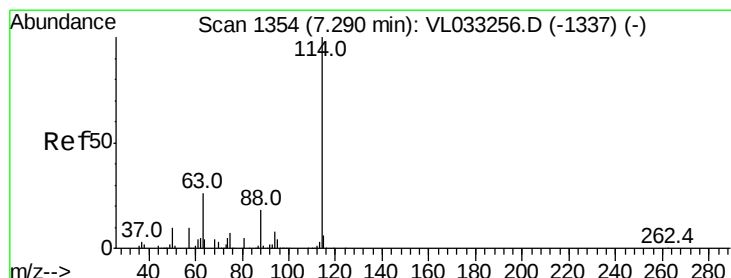
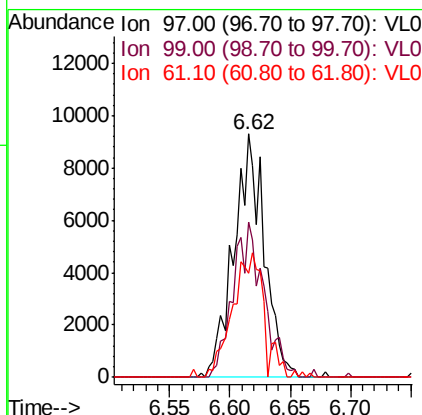
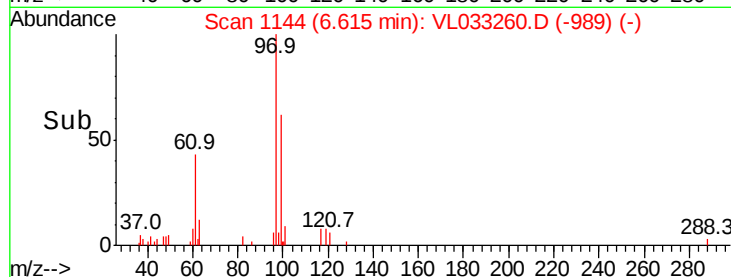
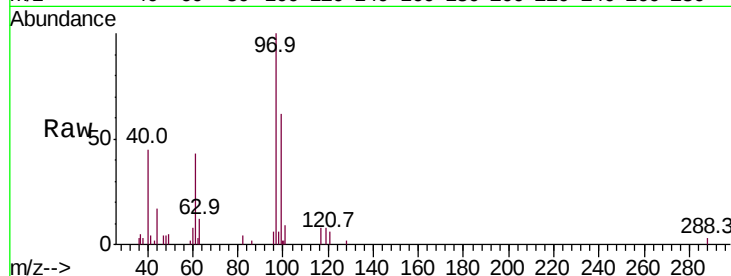
ClientSampleId :

VSTDIC0.1

Tot Ion:	97	Resp:	16317
Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	53.0	40.8	61.2

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

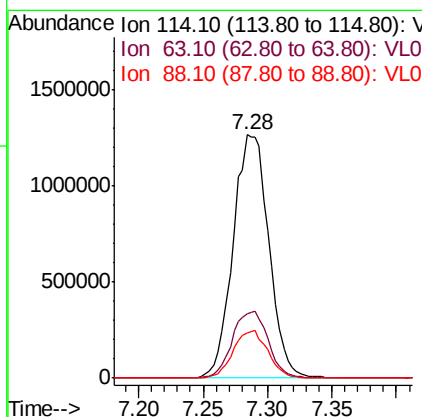
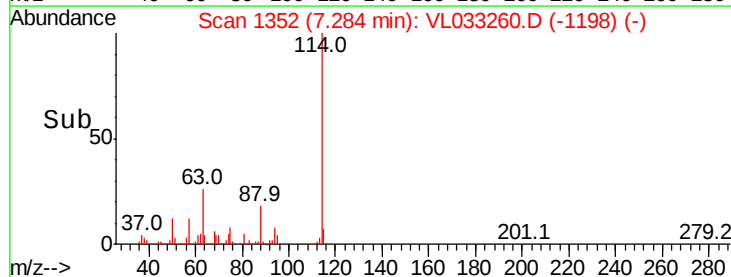
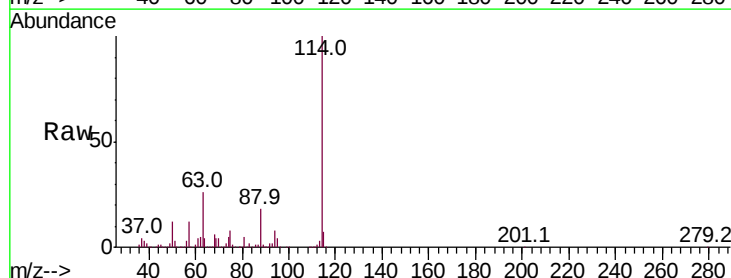
RT: 7.28 min Scan# 1352

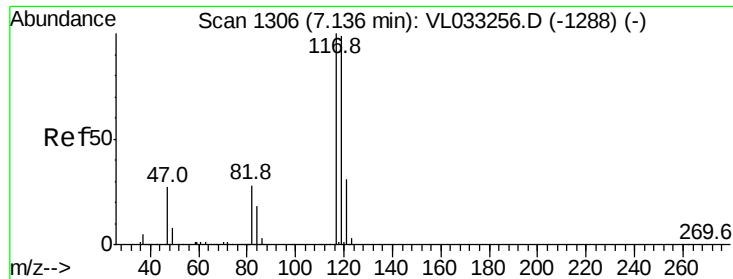
Delta R.T. -0.01 min

Lab File: VL033260.D

Acq: 8 Mar 2019 15:18

Tgt Ion:	114	Resp:	2440502
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	19.0	14.6	22.0





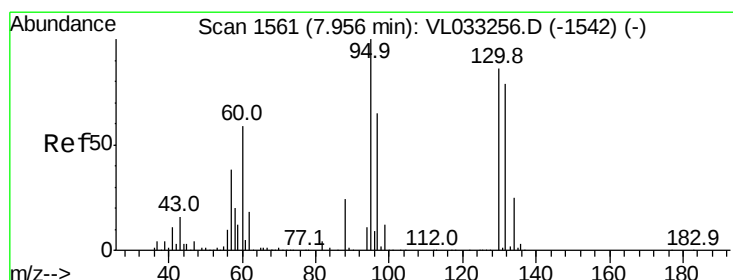
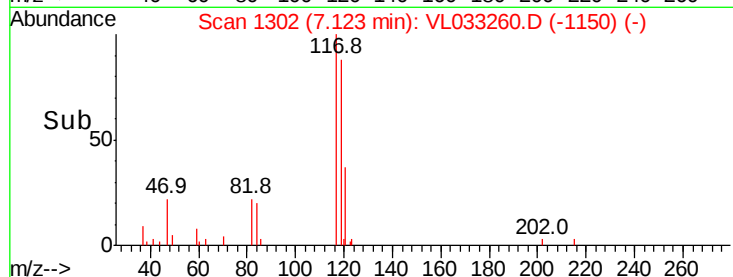
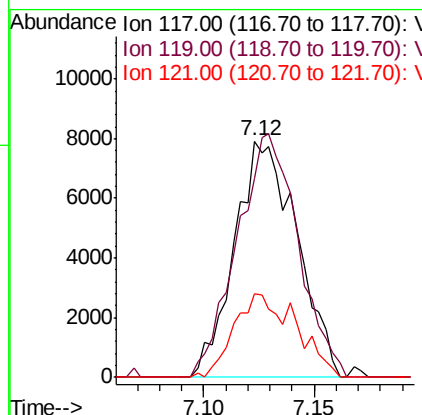
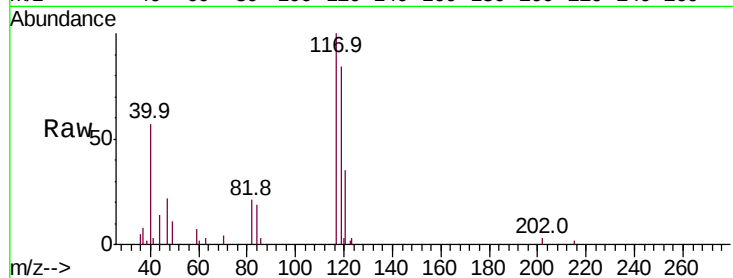
#35
Carbon Tetrachloride
Concen: 0.084 ppbv
RT: 7.12 min Scan# 1302
Delta R.T. -0.01 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Instrument :
MSVOA_L
ClientSampled :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
117	100		
119	84.1	79.0	118.6
121	35.5	24.7	37.1

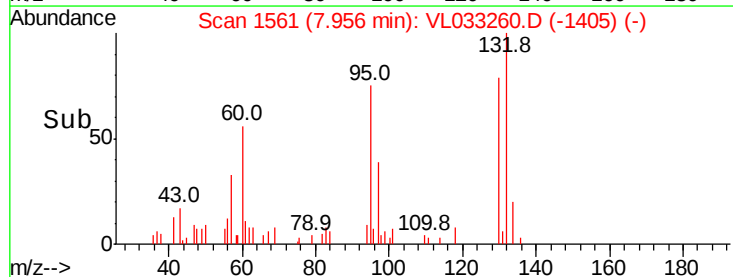
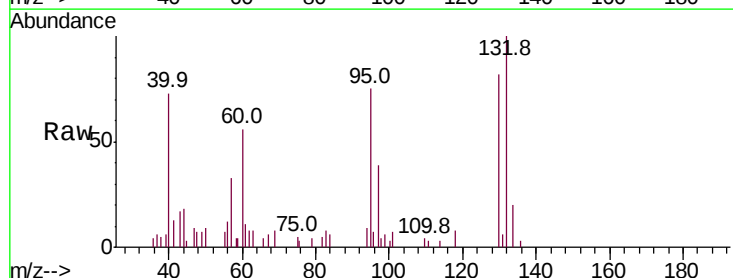
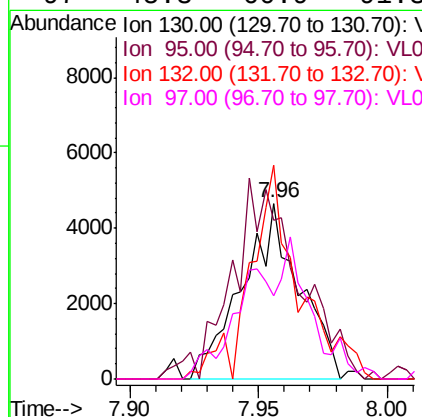
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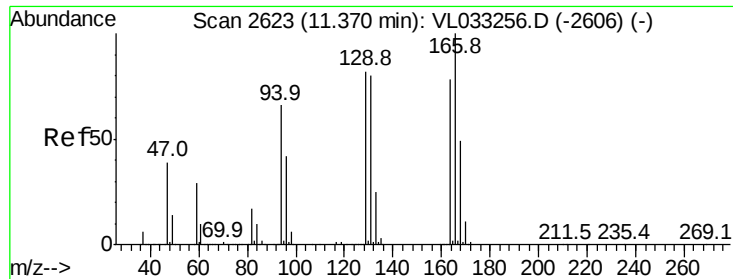
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#38
Trichloroethene
Concen: 0.084 ppbv
RT: 7.96 min Scan# 1561
Delta R.T. 0.00 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Tgt Ion	Ratio	Lower	Upper
130	100		
95	75.6	93.4	140.0#
132	116.8	74.0	111.0#
97	45.3	60.9	91.3#





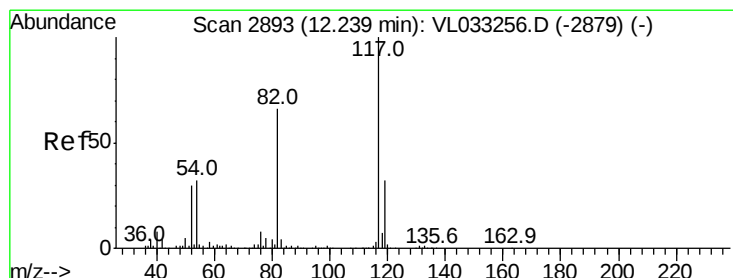
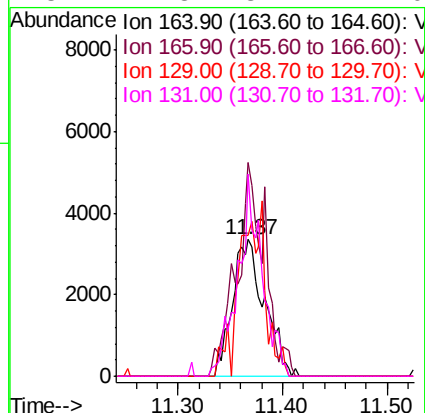
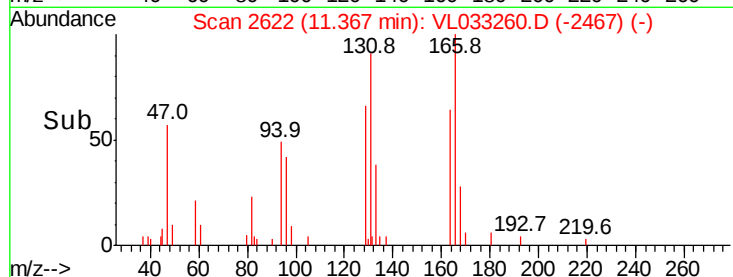
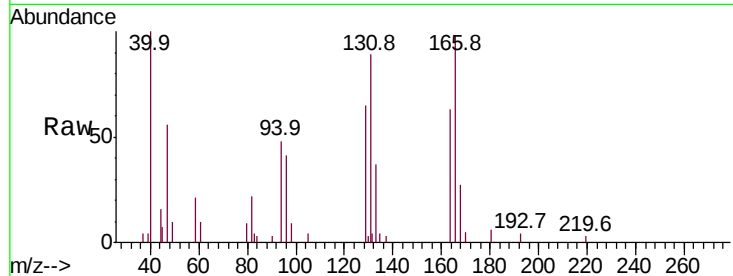
#52
Tetrachloroethene
Concen: 0.083 ppbv
RT: 11.37 min Scan# 2622
Delta R.T. -0.00 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

Tot Ion	Ratio	Lower	Upper
164	100		
166	156.5	102.0	153.0#
129	103.0	83.2	124.8
131	141.8	81.4	122.0#

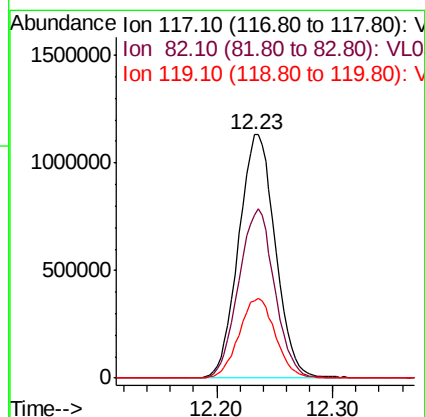
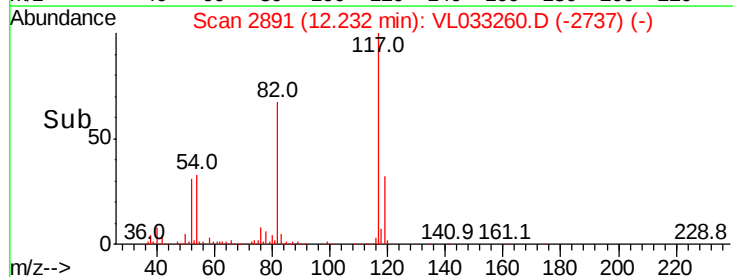
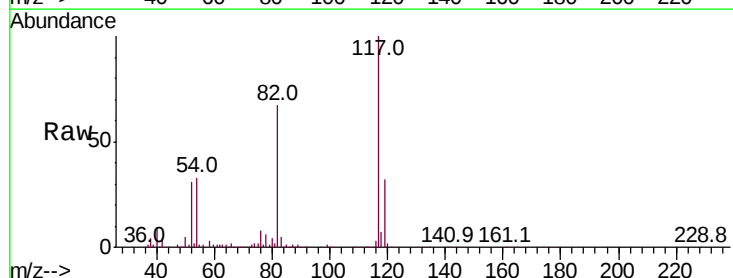
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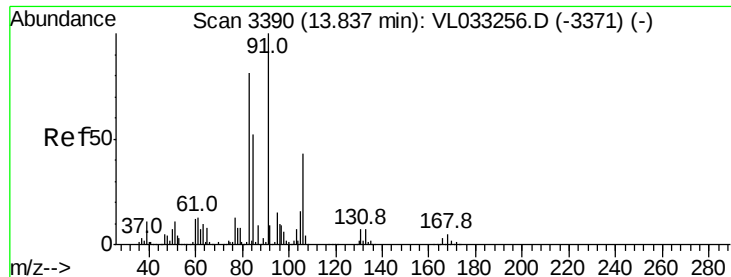
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033260.D
Acq: 8 Mar 2019 15:18

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.2	52.2	78.4
119	32.5	43.4	65.2#





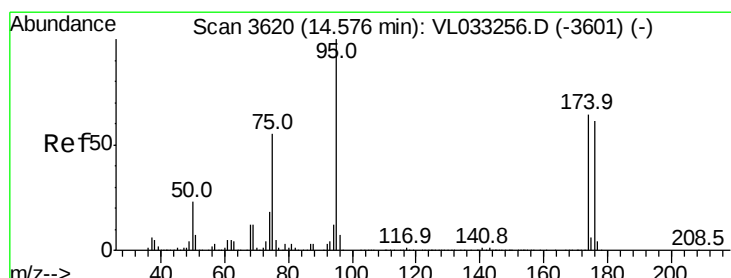
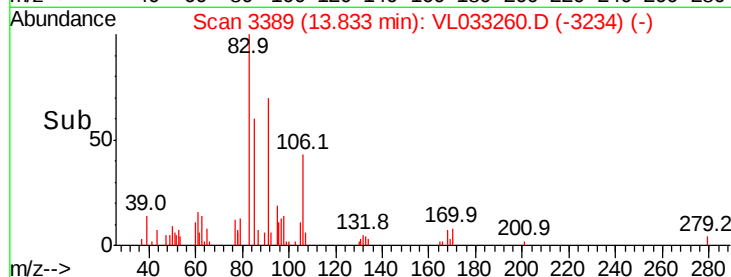
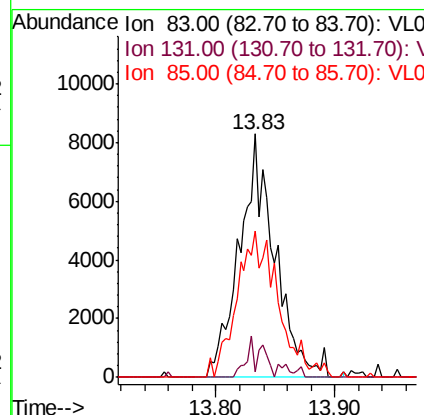
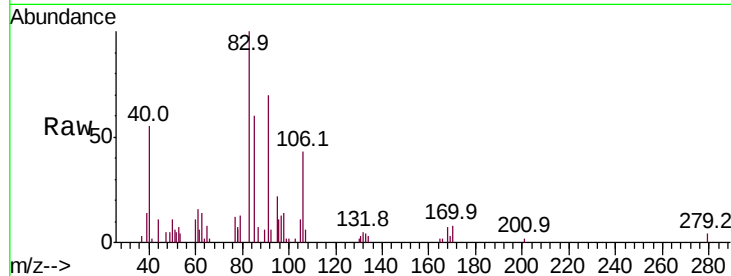
#63
 1,1,2,2-Tetrachloroethane
 Concen: 0.087 ppbv
 RT: 13.83 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDIC0.1

Tot Ion	83	Resp	17312
Ion	Ratio	Lower	Upper
83	100		
131	9.5	4.7	14.0
85	70.4	32.4	97.0

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#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.595 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.00 min
 Lab File: VL033260.D
 Acq: 8 Mar 2019 15:18

Tgt Ion	95	Resp	2002964
Ion	Ratio	Lower	Upper
95	100		
174	63.2	51.7	77.5
175	4.6	3.8	5.8

