

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL010419\
 Data File : VL033066.D
 Acq On : 4 Jan 2019 12:34
 Operator : SY/AP
 Sample : VSTDICC0.03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.03

Manual Integrations
 APPROVED

MMDadoda
 1/8/2019 12:01:10 AM

Quant Time: Jan 04 14:17:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 03 19:04:31 2019
 QLast Update : Thu Jan 03 19:04:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1117986	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2696004	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2542570	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.58	95	1932555	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl Chloride	3.30	62	2632m	0.031	ppbv	
32) 1,1,1-Trichloroethane	6.63	97	6610	0.030	ppbv	96
35) Carbon Tetrachloride	7.14	117	7490m	0.032	ppbv	

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

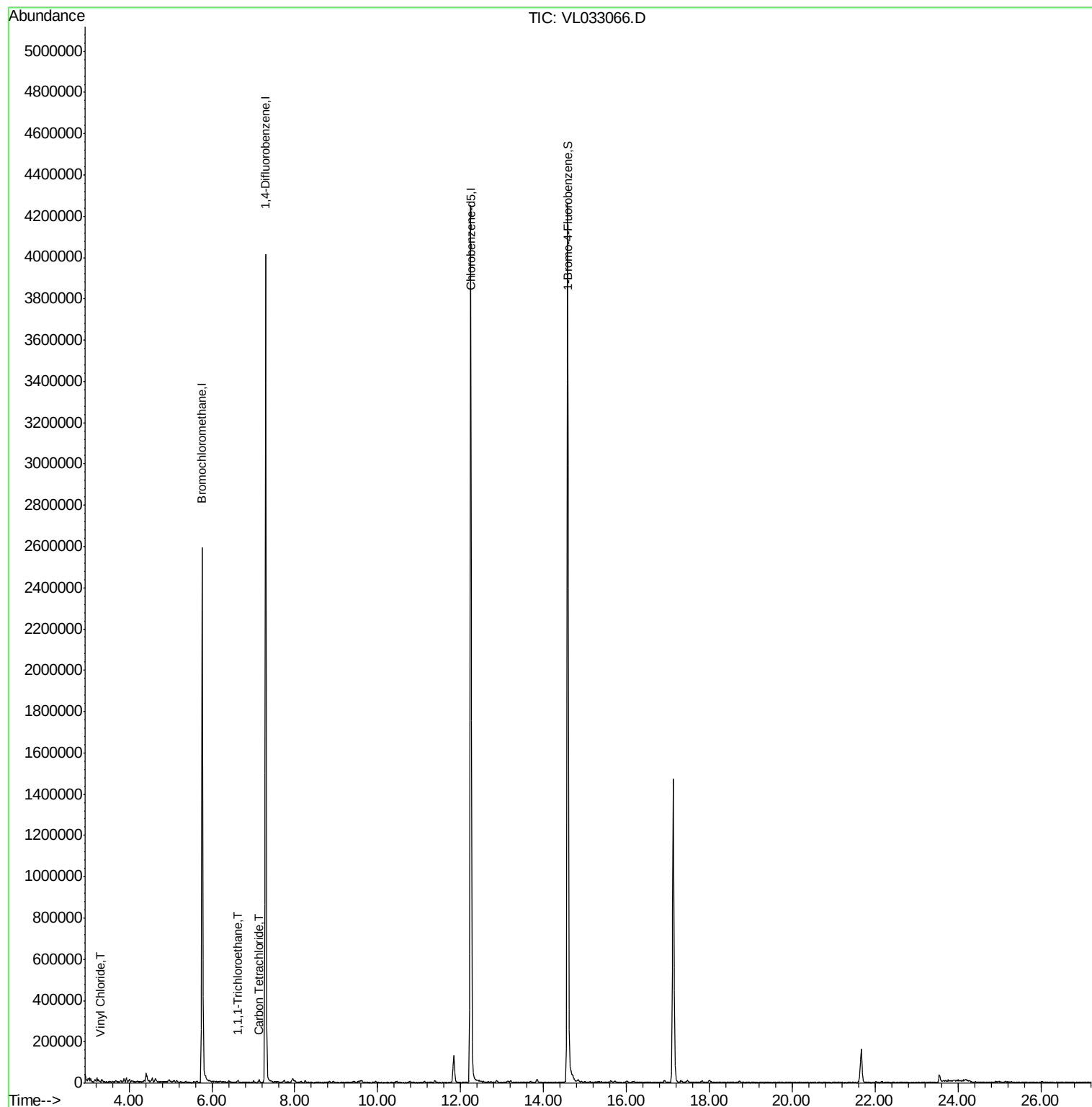
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL010419\
Data File : VL033066.D
Acq On : 4 Jan 2019 12:34
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

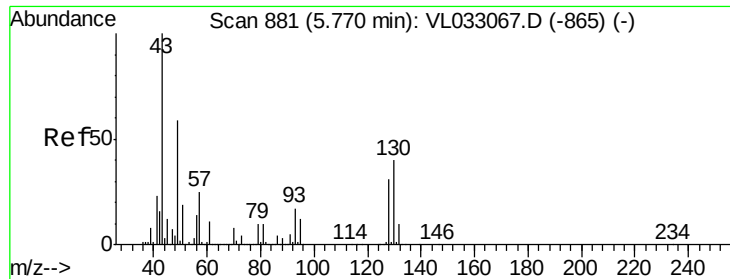
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.03

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Quant Time: Jan 04 14:17:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 03 19:04:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

ClientSampleId :

VSTDIC0.03

Tot Ion: 49 Resp: 1117986

Ion Ratio Lower Upper

49 100

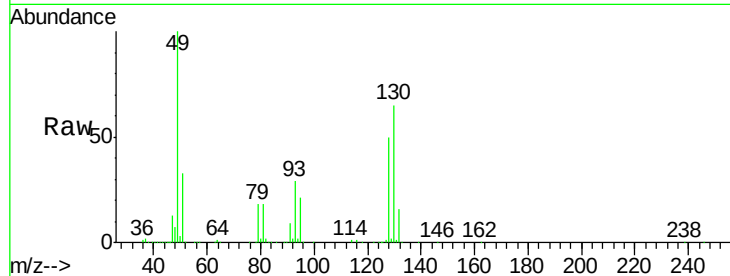
128 53.9 26.2 78.5

130 67.8 33.6 100.6

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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

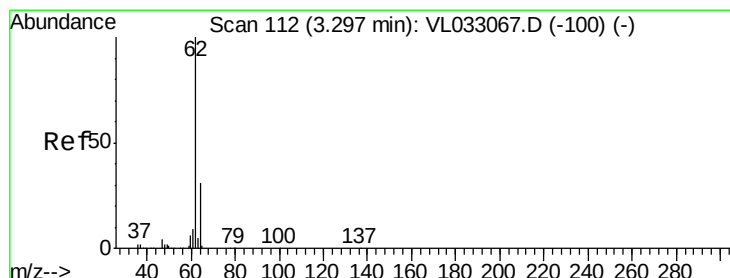
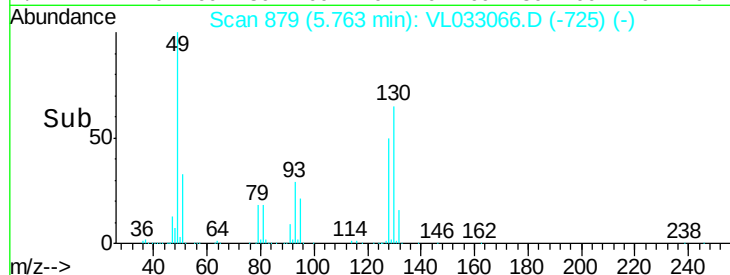
400000

200000

0

5.70 5.75 5.80 5.85

Time-->



#5

Vinyl Chloride

Concen: 0.031 ppbv m

RT: 3.30 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL033066.D

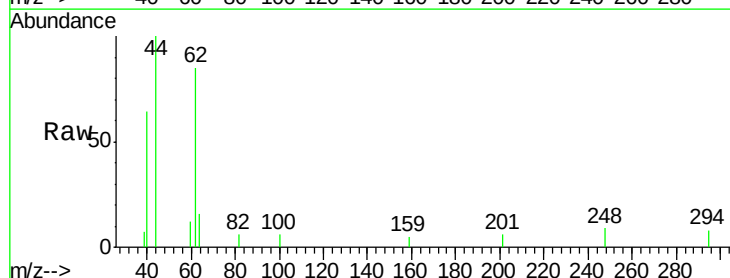
Acq: 4 Jan 2019 12:34

Tgt Ion: 62 Resp: 2632

Ion Ratio Lower Upper

62 100

64 18.4 25.3 37.9#



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0

2500

2000

1500

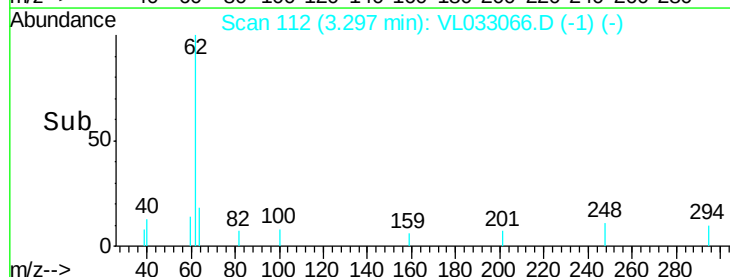
1000

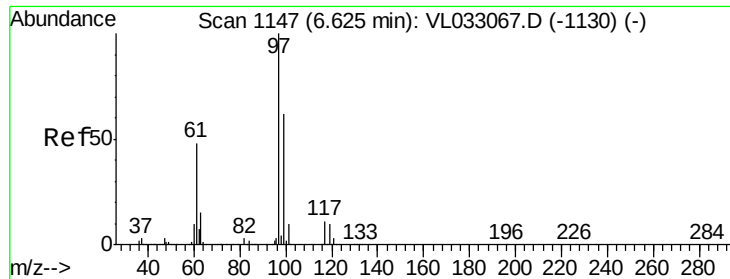
500

0

3.25 3.30

Time-->





#32

1,1,1-Trichloroethane

Concen: 0.030 ppbv

RT: 6.63 min Scan# 1148

Delta R.T. 0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

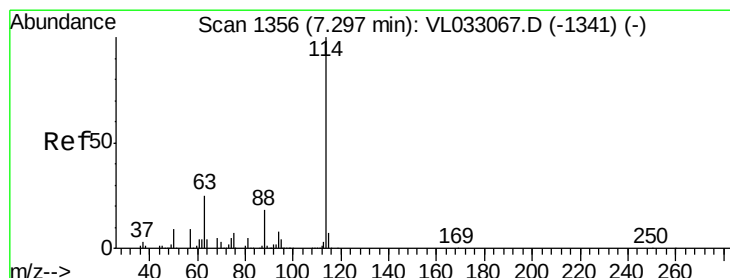
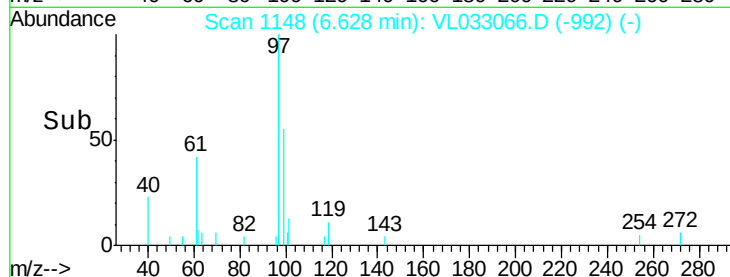
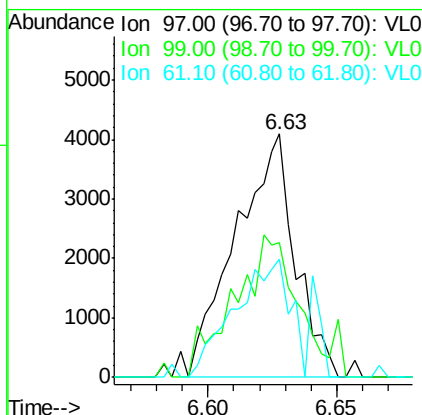
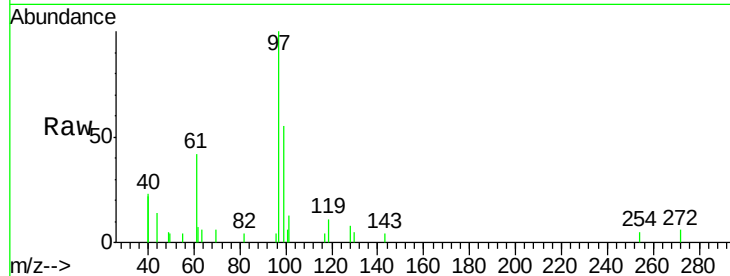
ClientSampleId :

VSTDIC0.03

Tot Ion:	97	Resp:	6610
Ion	Ratio	Lower	Upper
97	100		
99	64.6	51.1	76.7
61	53.4	38.3	57.5

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

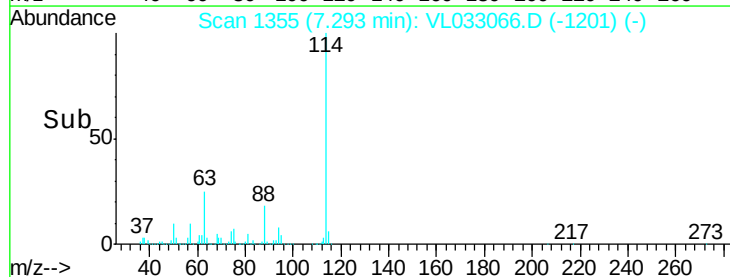
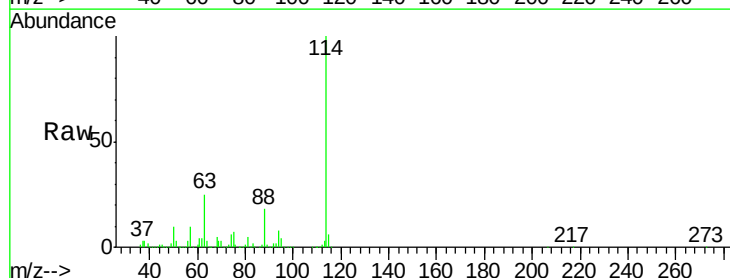
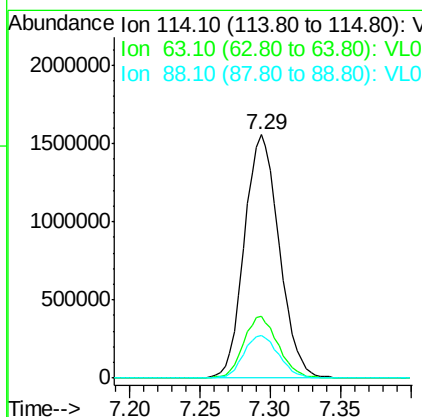
RT: 7.29 min Scan# 1355

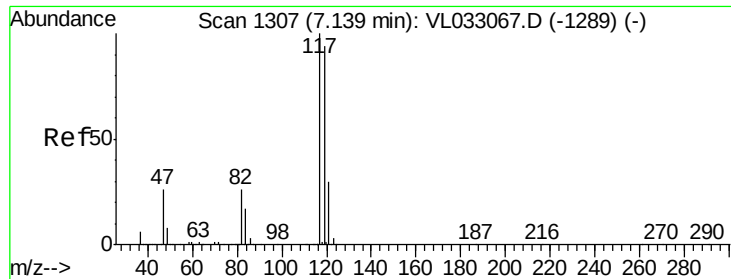
Delta R.T. -0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Tgt Ion:	114	Resp:	2696004
Ion	Ratio	Lower	Upper
114	100		
63	25.3	20.1	30.1
88	17.9	14.0	21.0





#35

Carbon Tetrachloride

Concen: 0.032 ppbv m

RT: 7.14 min Scan# 1306

Delta R.T. -0.00 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Instrument :

MSVOA_L

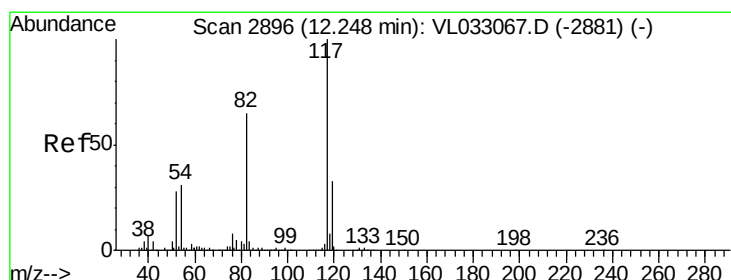
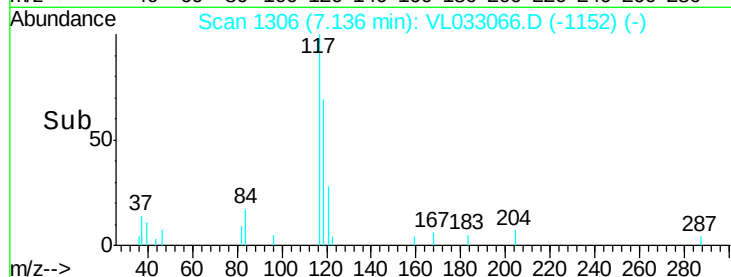
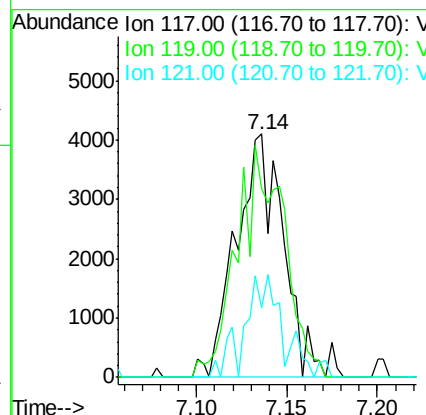
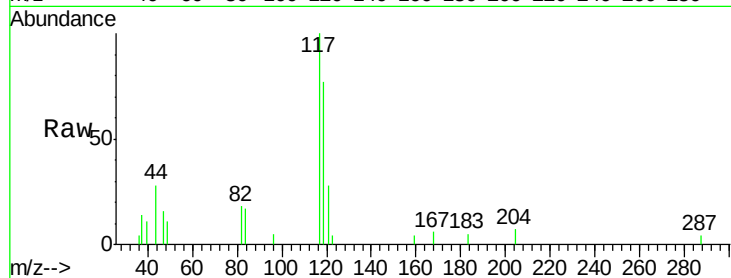
ClientSampleId :

VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
117	100		
119	77.3	76.5	114.7
121	28.3	25.2	37.8

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

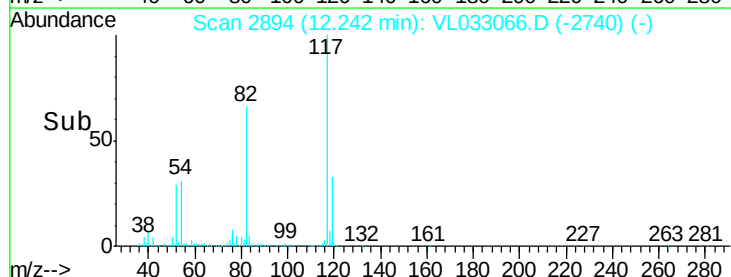
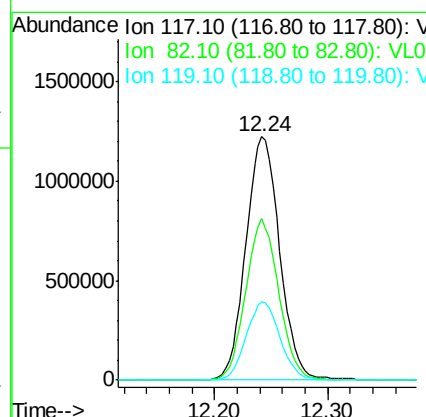
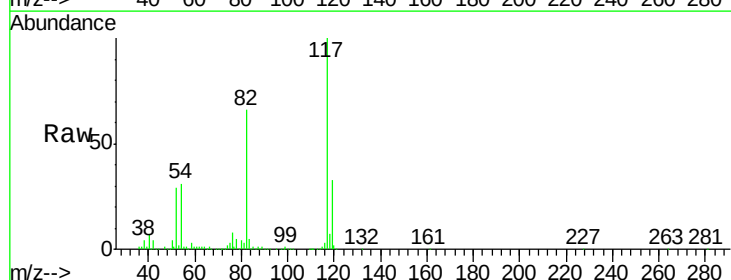
RT: 12.24 min Scan# 2894

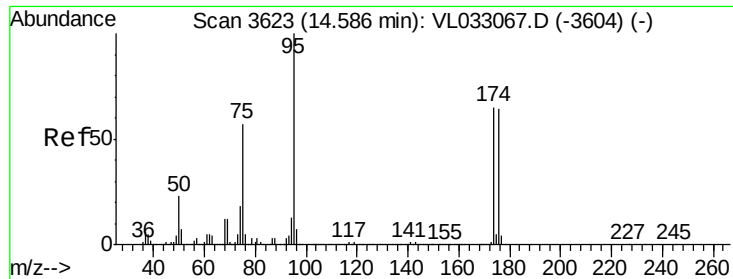
Delta R.T. -0.01 min

Lab File: VL033066.D

Acq: 4 Jan 2019 12:34

Tgt Ion	Ratio	Lower	Upper
117	100		
82	65.3	48.9	73.3
119	32.5	24.6	37.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.191 ppbv
 RT: 14.58 min Scan# 3620
 Delta R.T. -0.01 min
 Lab File: VL033066.D
 Acq: 4 Jan 2019 12:34

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.03

Tot Ion	Ratio	Lower	Upper
95	100		
174	65.2	51.9	77.9
175	4.7	3.9	5.9

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 1/8/2019 12:01:10 AM

