

Data File : VL032819.D
Acq On : 27 Nov 2018 22:47
Operator : SY/AP
Sample : J6046-02DL 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03DL

Quant Time: Nov 28 03:18:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1212139	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3177439	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	2945310	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.59	95	2147643	9.75	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

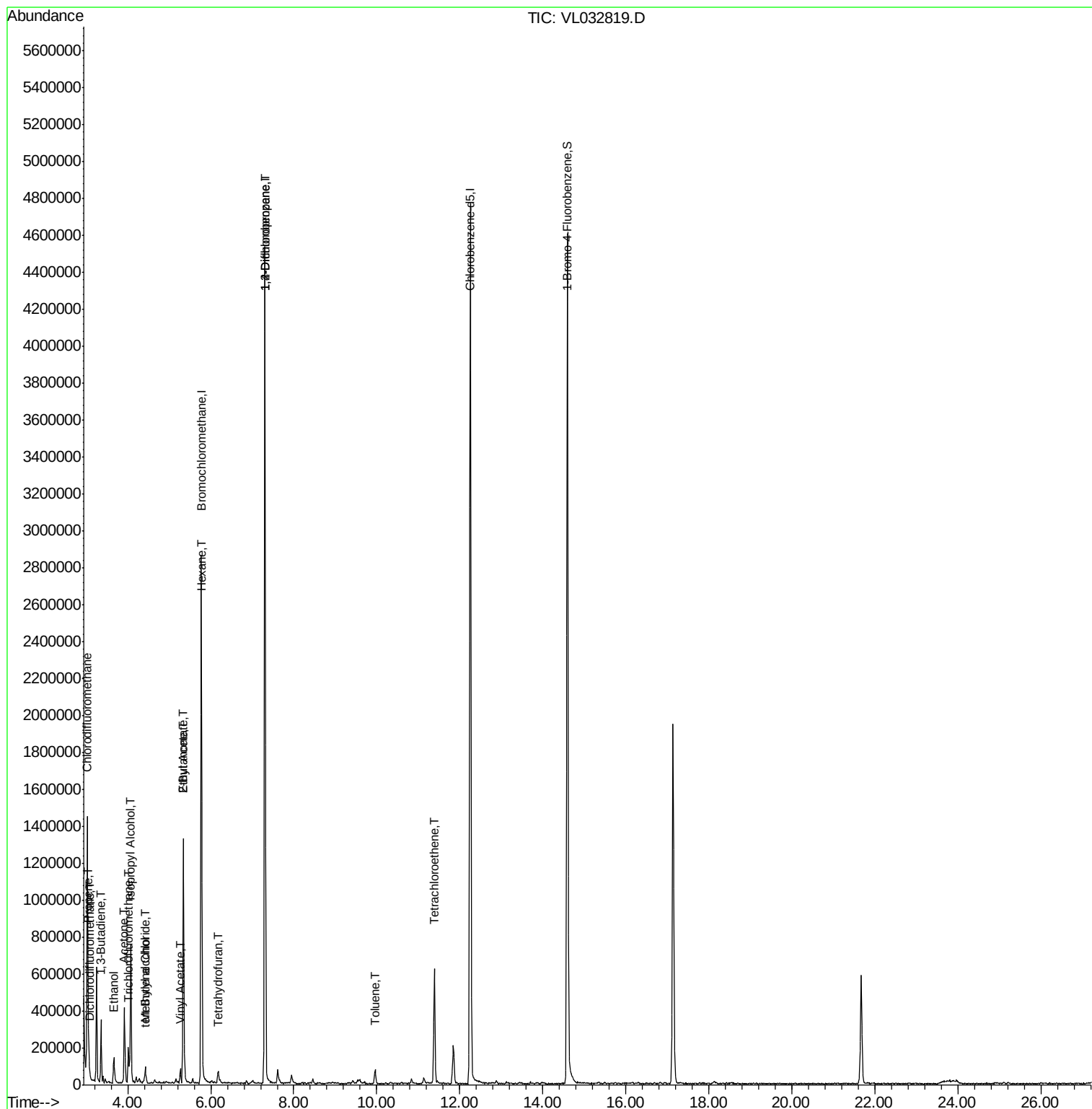
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.08	85	18764	0.108	ppbv	93
3) Chlorodifluoromethane	3.02	51	1260142	13.113	ppbv	99
9) Propene	3.05	41	100411	2.611	ppbv	98
11) Trichlorofluoromethane	4.01	101	118644	0.723	ppbv	98
13) Ethanol	3.66	45	145068	11.517	ppbv	97
15) Acetone	3.91	43	377863	3.414	ppbv #	65
16) 1,3-Butadiene	3.35	39	83611	1.950	ppbv #	14
17) tert-Butyl alcohol	4.40	59	4876	0.140	ppbv #	73
19) Isopropyl Alcohol	4.07	45	112372	1.524	ppbv #	95
20) Methylene Chloride	4.42	84	21567	0.376	ppbv #	84
23) Vinyl Acetate	5.26	43	21543	0.107	ppbv #	24
25) Ethyl Acetate	5.34	43	1447472	5.610	ppbv #	76
26) Hexane	5.79	57	13686	0.119	ppbv #	1
34) 2-Butanone	5.34	43	1447472	8.783	ppbv	100
39) 1,2-Dichloropropane	7.30	63	803300	8.333	ppbv #	24
41) Tetrahydrofuran	6.18	42	32776	0.347	ppbv	100
52) Tetrachloroethene	11.39	164	145132	1.649	ppbv	96
53) Toluene	9.96	91	25864	0.098	ppbv #	13

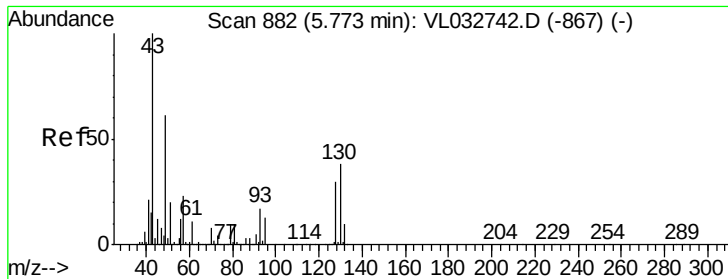
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 881

Delta R.T. -0.00 min

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MSVOA_L

ClientSampleId :

EP2-SV-03DL

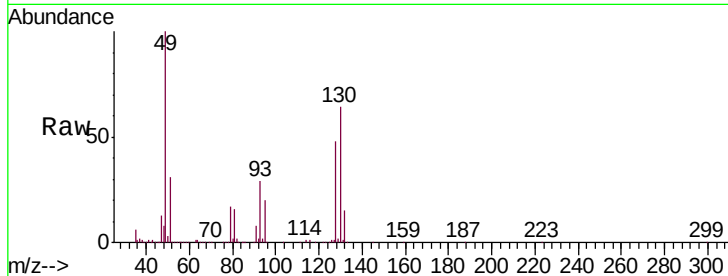
Tgt Ion: 49 Resp: 1212139

Ion Ratio Lower Upper

49 100

128 53.2 24.9 74.6

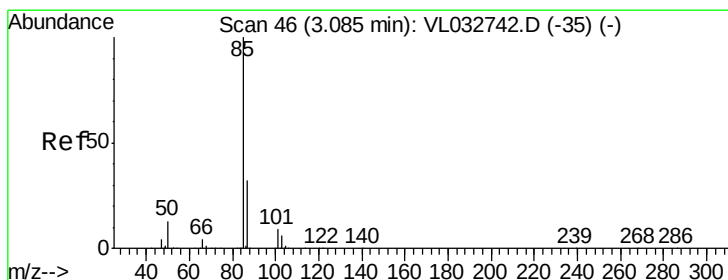
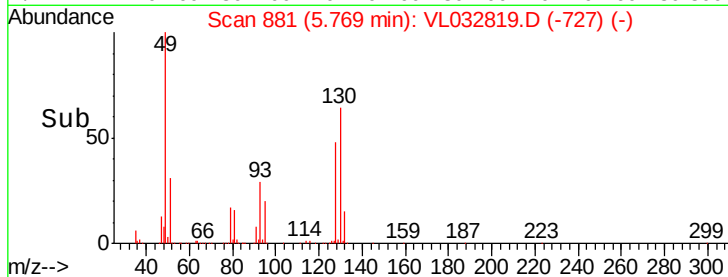
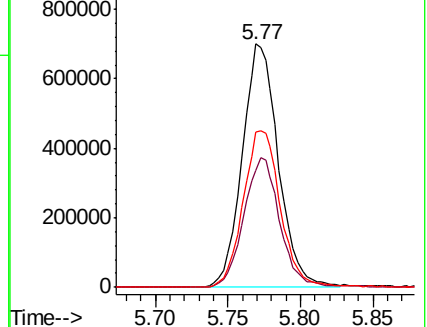
130 67.2 31.4 94.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.108 ppbv

RT: 3.08 min Scan# 46

Delta R.T. -0.00 min

Lab File: VL032819.D

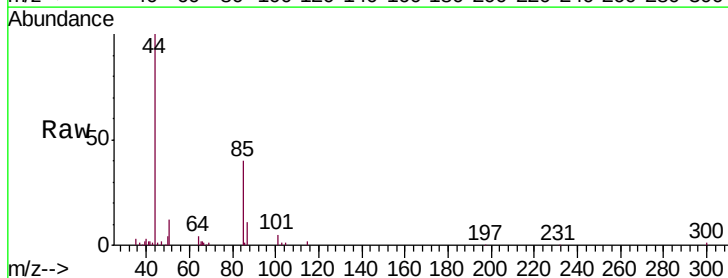
Acq: 27 Nov 2018 22:47

Tgt Ion: 85 Resp: 18764

Ion Ratio Lower Upper

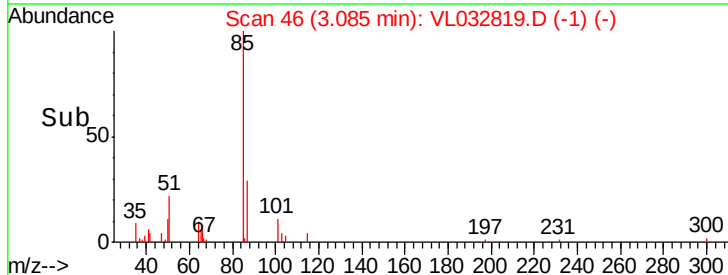
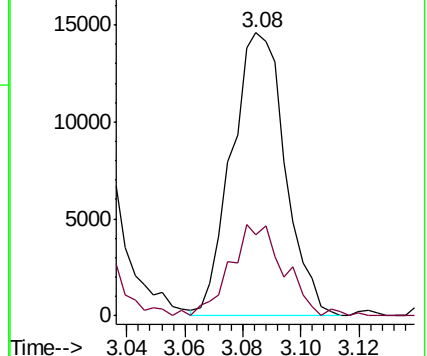
85 100

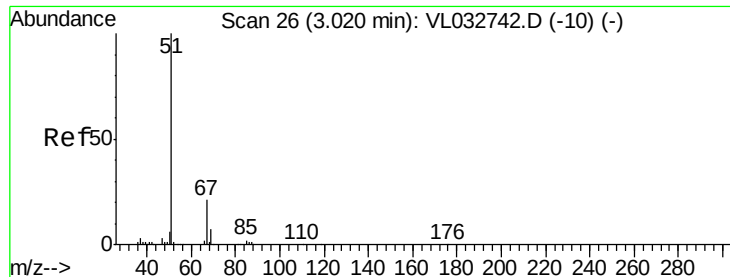
87 28.5 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 13.113 ppbv

RT: 3.02 min Scan# 27

Delta R.T. 0.00 min

Lab File: VL032819.D

Acq: 27 Nov 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

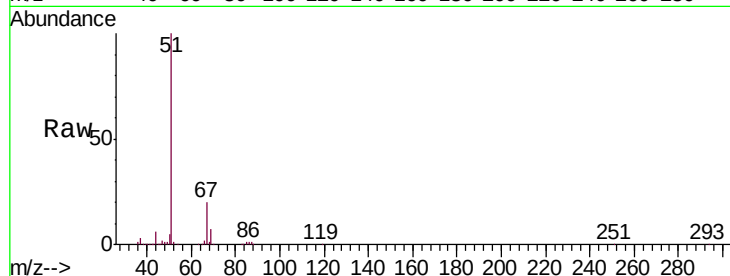
EP2-SV-03DL

Tgt Ion: 51 Resp: 1260142

Ion Ratio Lower Upper

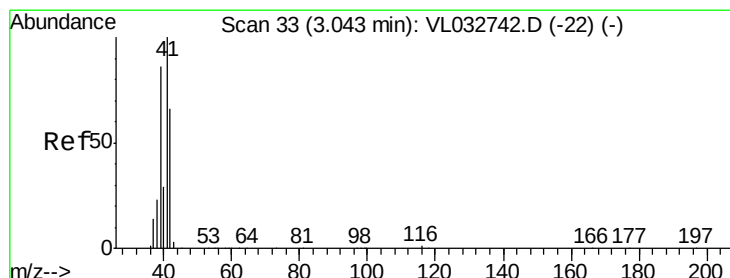
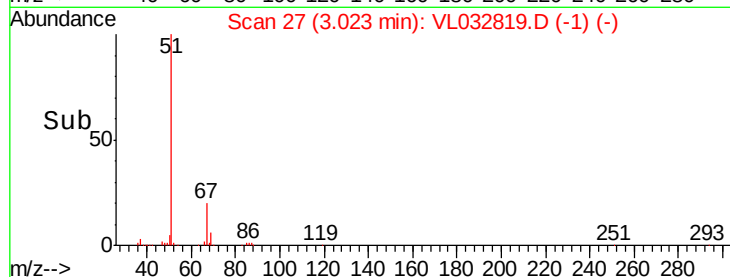
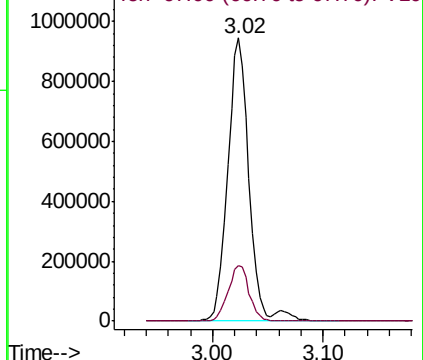
51 100

67 19.6 16.1 24.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 2.611 ppbv

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

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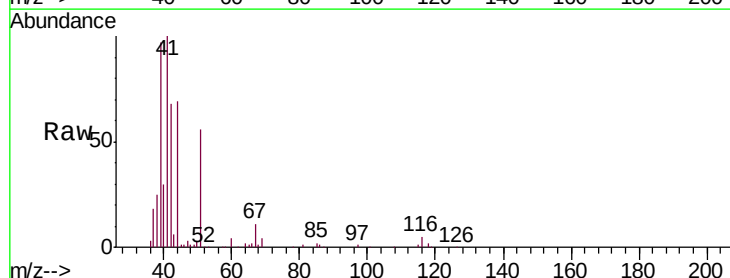
Acq: 27 Nov 2018 22:47

Tgt Ion: 41 Resp: 100411

Ion Ratio Lower Upper

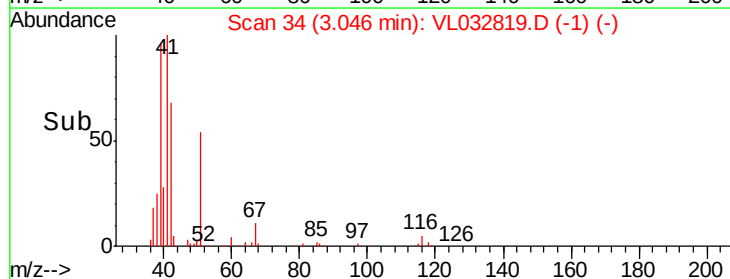
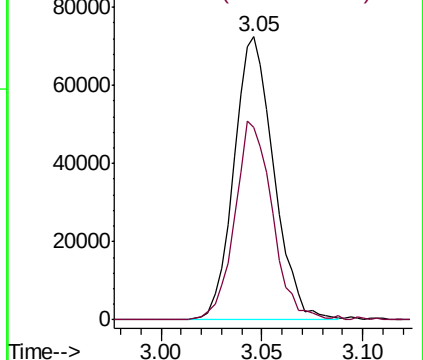
41 100

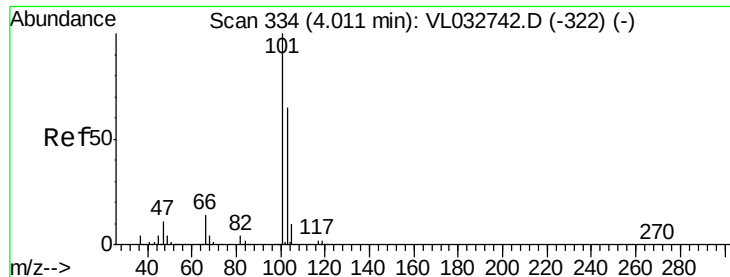
42 66.9 55.0 82.6



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

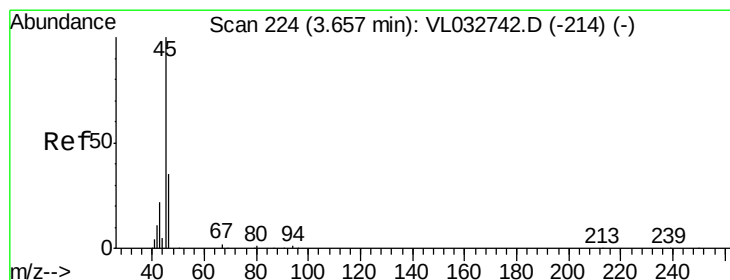
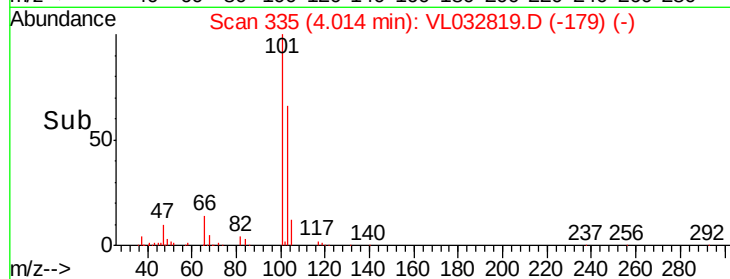
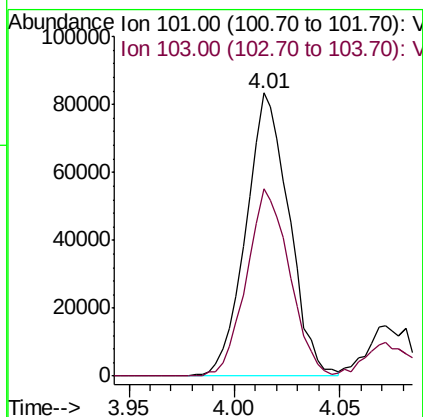
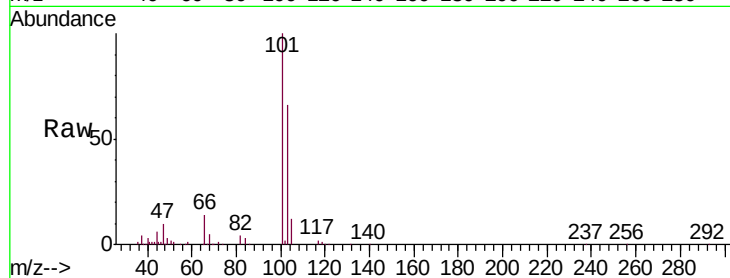




#11
 Trichlorofluoromethane
 Concen: 0.723 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

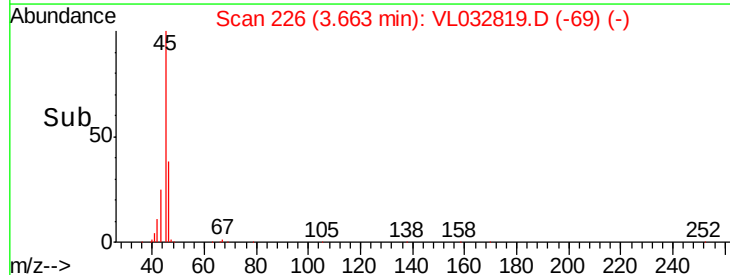
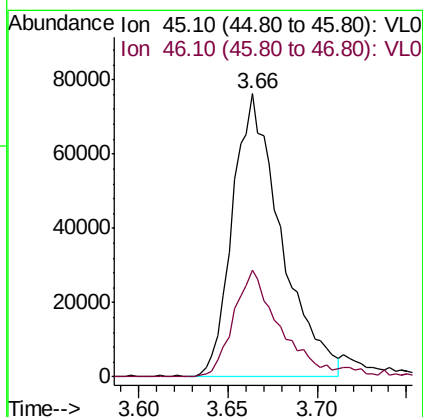
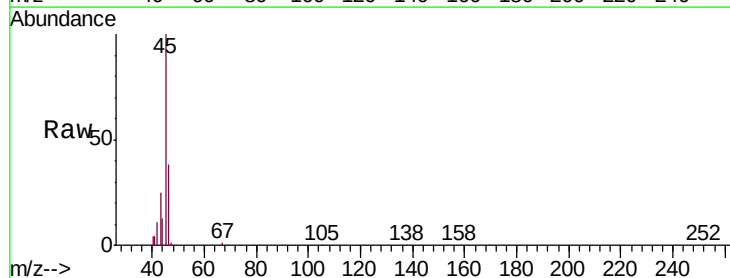
Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03DL

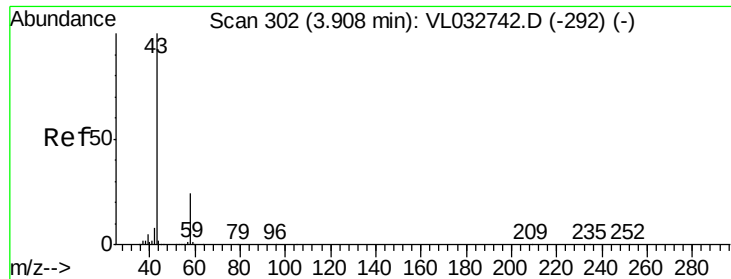
Tgt Ion: 101 Resp: 118644
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.6 77.4



#13
 Ethanol
 Concen: 11.517 ppbv
 RT: 3.66 min Scan# 226
 Delta R.T. 0.01 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

Tgt Ion: 45 Resp: 145068
 Ion Ratio Lower Upper
 45 100
 46 37.7 14.5 57.9





#15

Acetone

Concen: 3.414 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL032819.D

Acq: 27 Nov 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

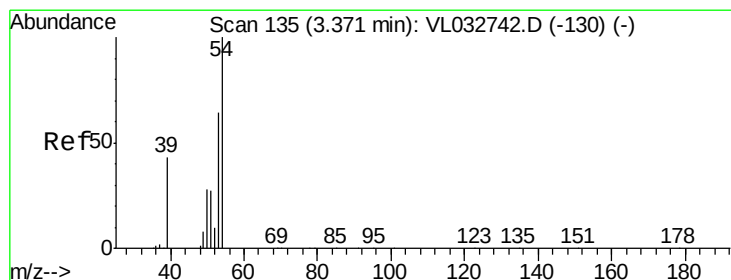
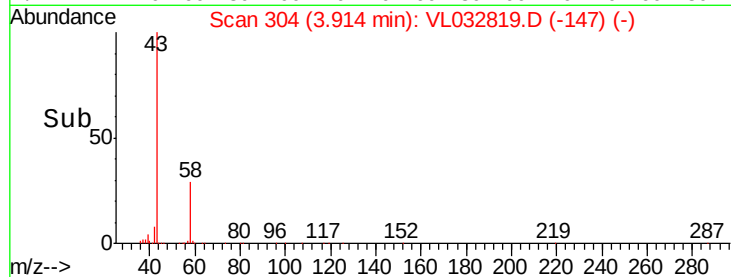
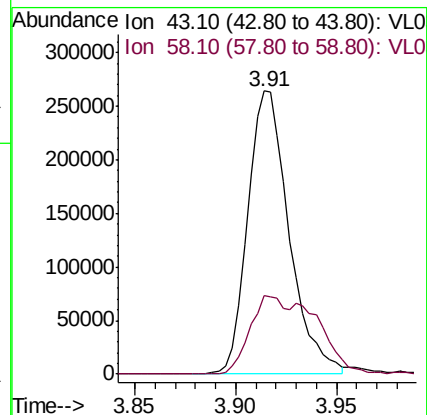
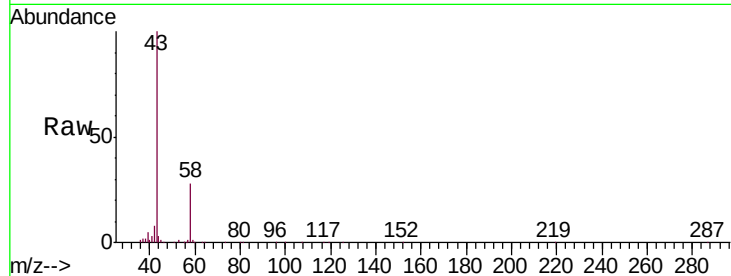
EP2-SV-03DL

Tgt Ion: 43 Resp: 377863

Ion Ratio Lower Upper

43 100

58 44.4 21.1 31.7#



#16

1,3-Butadiene

Concen: 1.950 ppbv

RT: 3.35 min Scan# 130

Delta R.T. -0.02 min

Lab File: VL032819.D

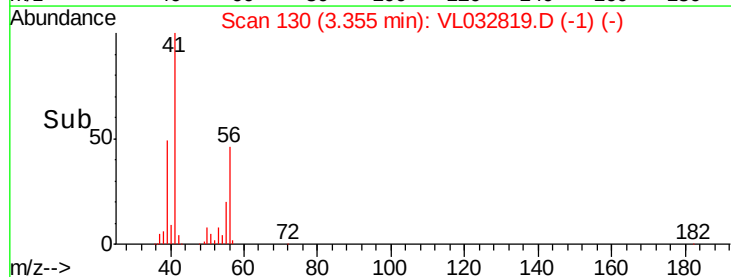
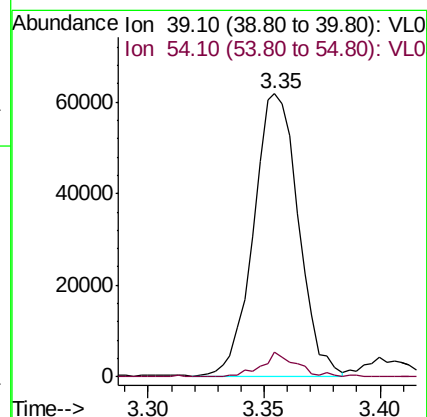
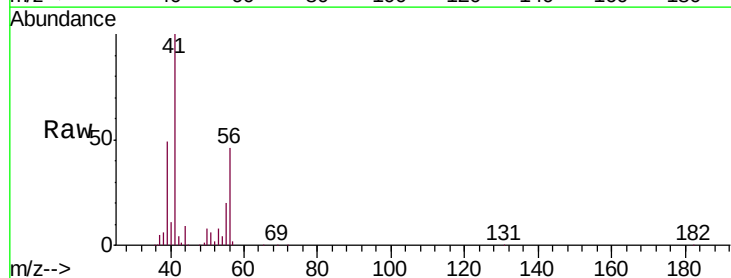
Acq: 27 Nov 2018 22:47

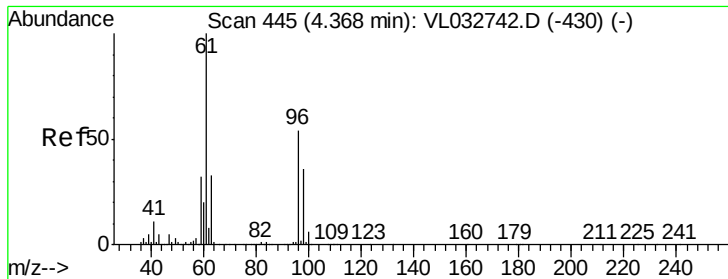
Tgt Ion: 39 Resp: 83611

Ion Ratio Lower Upper

39 100

54 7.1 68.9 103.3#



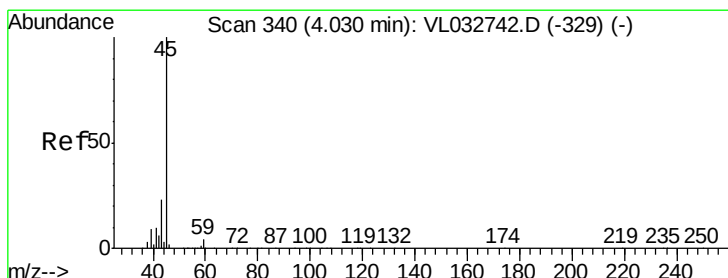
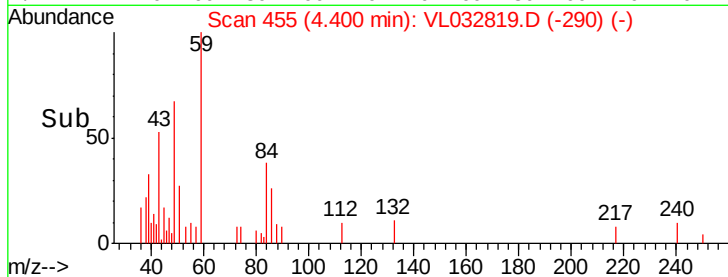
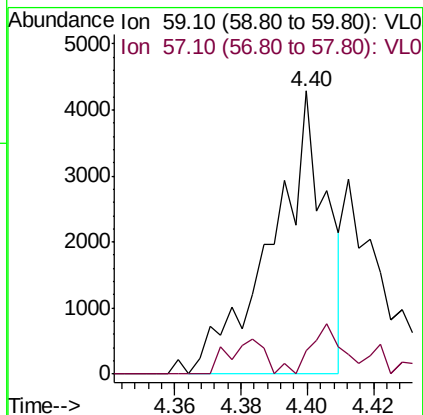
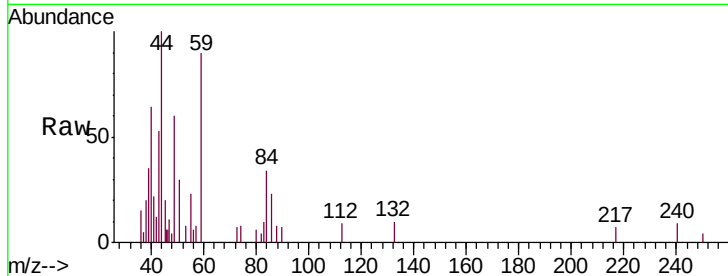


#17

tert-Butyl alcohol
 Concen: 0.140 ppbv
 RT: 4.40 min Scan# 455
 Delta R.T. 0.03 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

Instrument :
 MSVOA_L
 ClientSampleID :
 EP2-SV-03DL

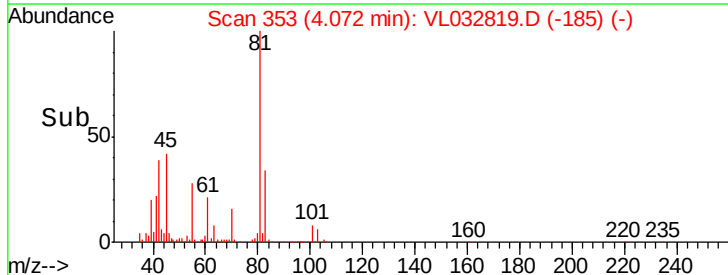
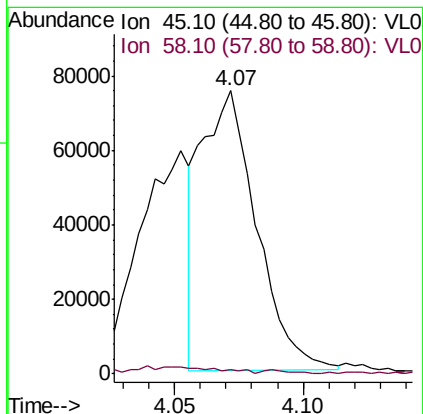
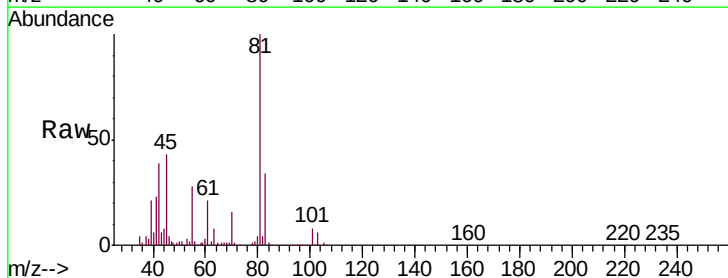
Tgt Ion: 59 Resp: 4876
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.8 11.8#

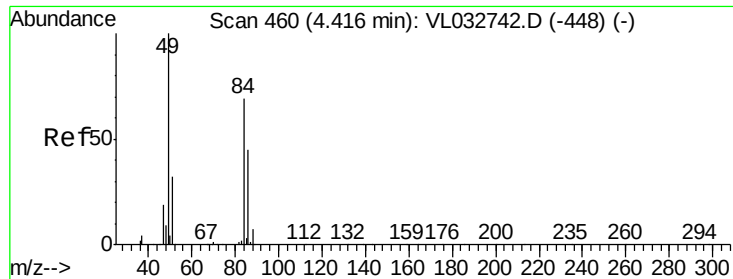


#19

Isopropyl Alcohol
 Concen: 1.524 ppbv
 RT: 4.07 min Scan# 353
 Delta R.T. 0.04 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

Tgt Ion: 45 Resp: 112372
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.0#

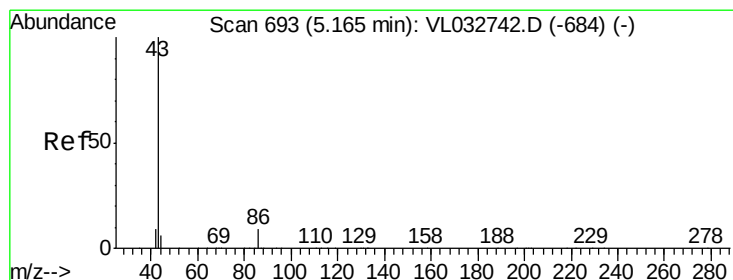
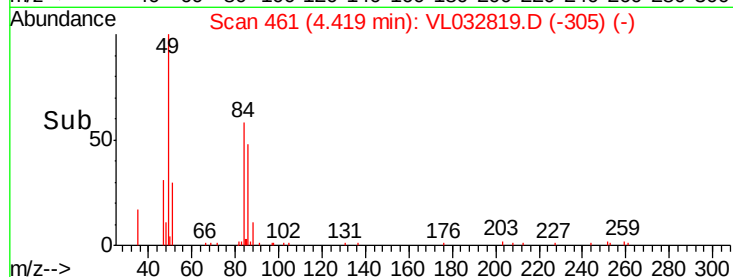
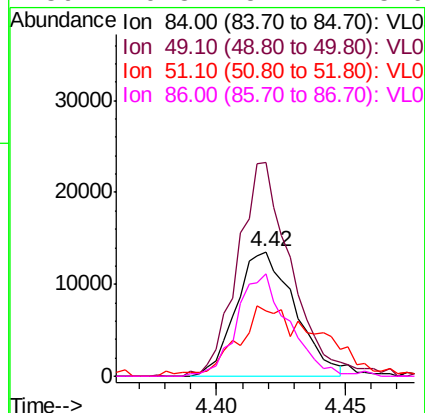
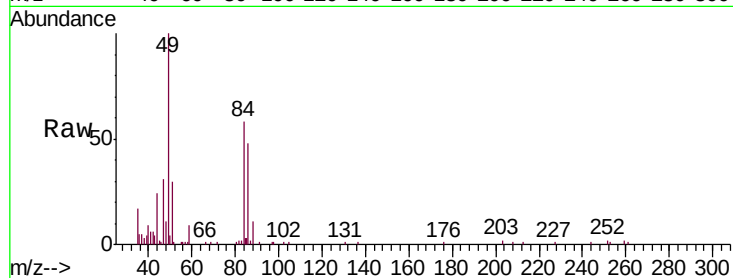




#20
Methylene Chloride
Concen: 0.376 ppbv
RT: 4.42 min Scan# 461
Delta R.T. 0.00 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

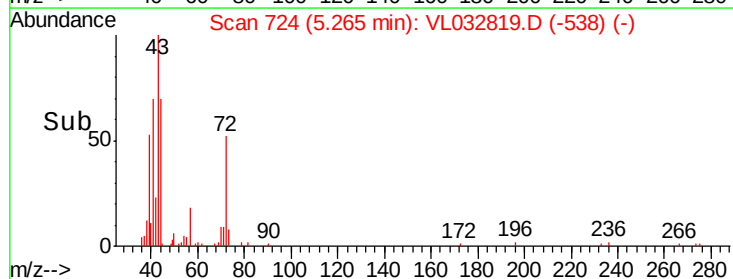
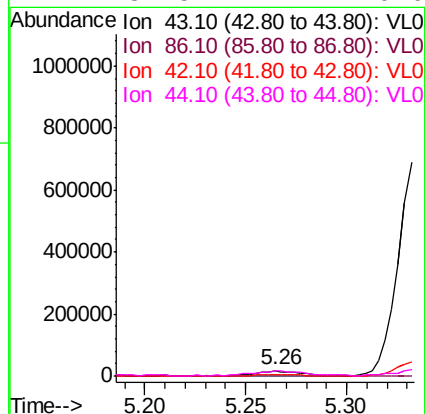
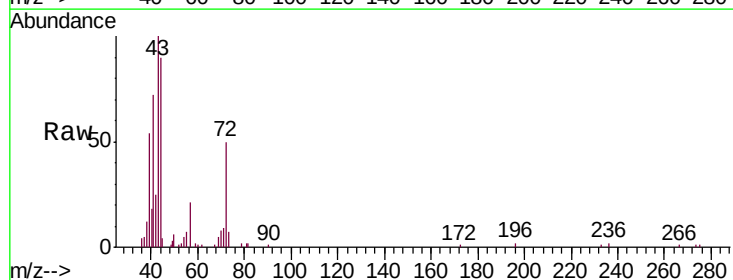
Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03DL

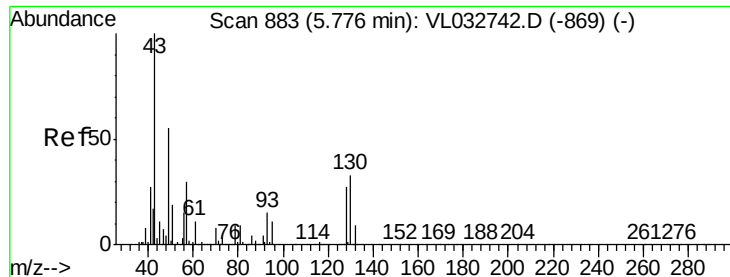
Tgt Ion:	84	Resp:	21567
Ion	Ratio	Lower	Upper
84	100		
49	167.9	115.8	173.6
51	48.9	36.9	55.3
86	79.8	52.4	78.6#



#23
Vinyl Acetate
Concen: 0.107 ppbv
RT: 5.26 min Scan# 724
Delta R.T. 0.10 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

Tgt Ion:	43	Resp:	21543
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.2	9.4#
42	22.4	7.8	11.6#
44	81.5	4.4	6.6#



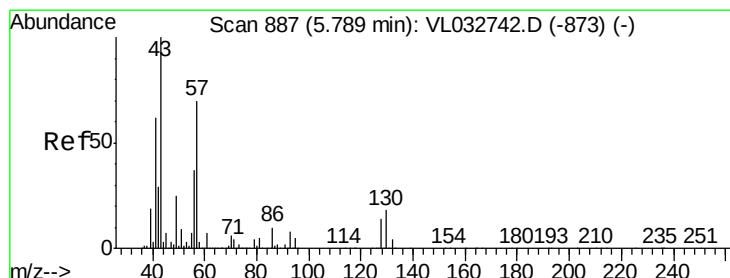
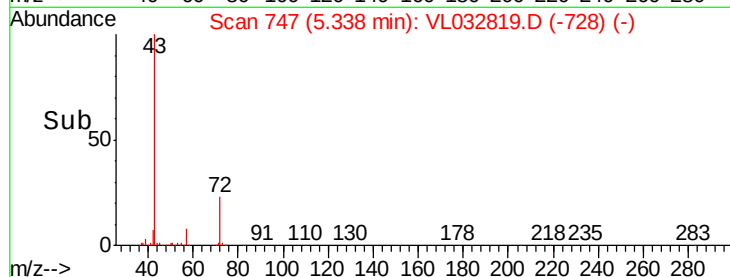
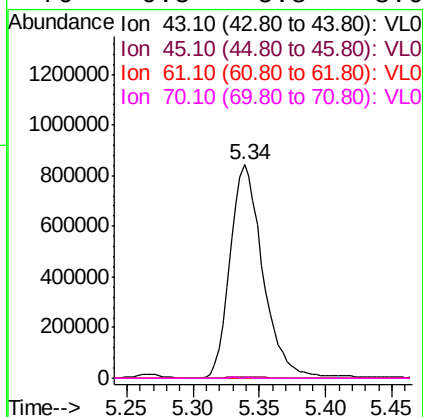
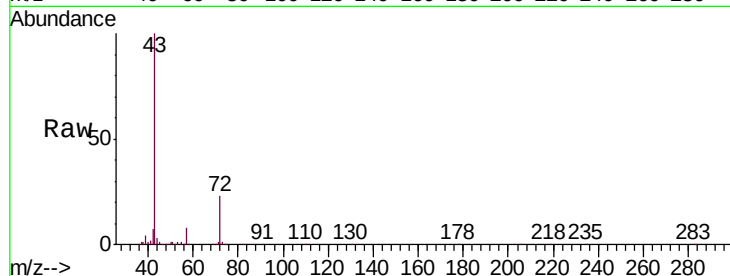


#25
Ethyl Acetate
Concen: 5.610 ppbv
RT: 5.34 min Scan# 747
Delta R.T. -0.44 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03DL

Tgt Ion: 43 Resp: 1447472

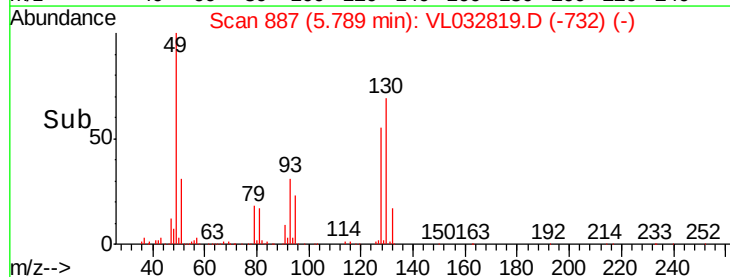
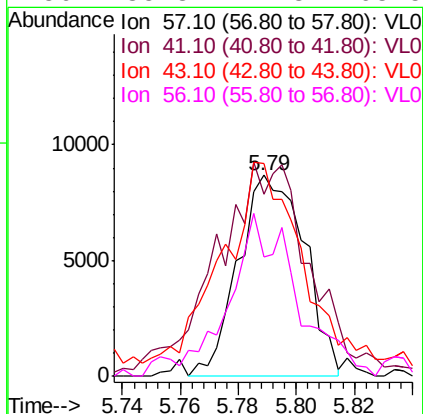
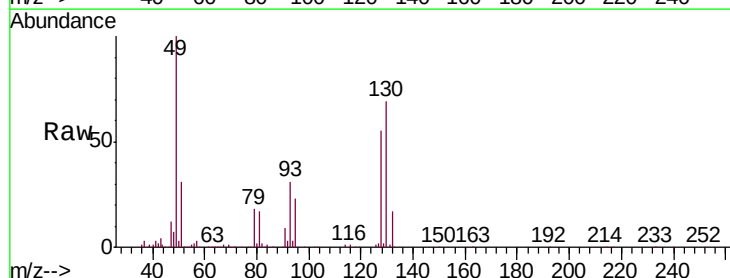
Ion	Ratio	Lower	Upper
43	100		
45	0.8	7.9	11.9#
61	0.0	7.8	11.6#
70	0.5	5.8	8.6#

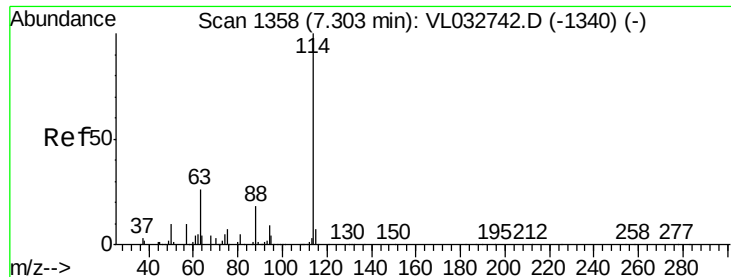


#26
Hexane
Concen: 0.119 ppbv
RT: 5.79 min Scan# 887
Delta R.T. -0.00 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

Tgt Ion: 57 Resp: 13686

Ion	Ratio	Lower	Upper
57	100		
41	154.0	70.3	105.5#
43	0.0	174.0	261.0#
56	85.3	42.3	63.5#

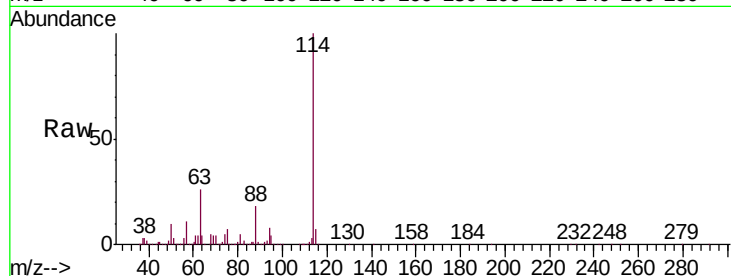




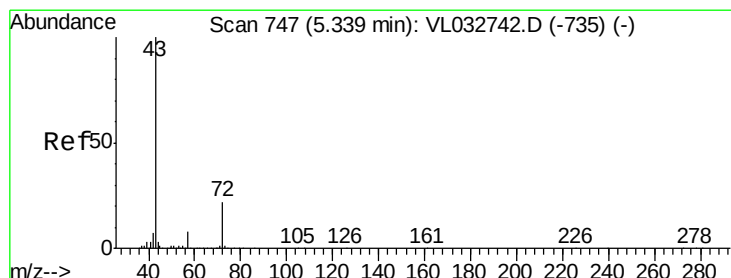
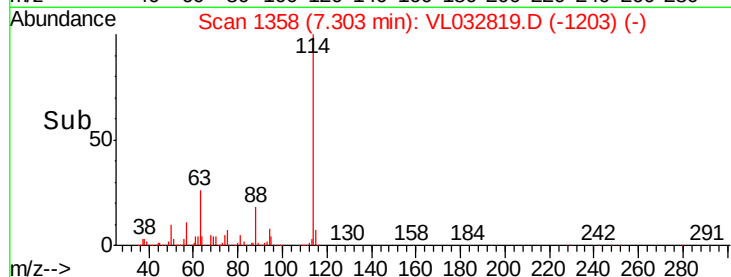
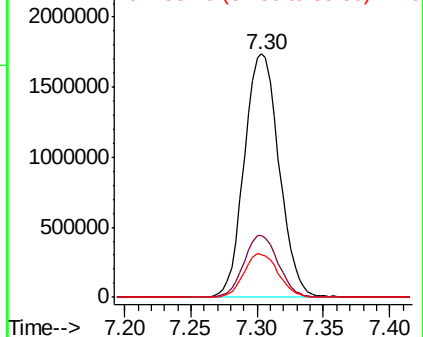
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.30 min Scan# 1358
 Delta R.T. -0.00 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

Instrument :
 MSVOA_L
 ClientSampleId :
 EP2-SV-03DL

Tgt Ion:114 Resp: 3177439
 Ion Ratio Lower Upper
 114 100
 63 25.5 20.9 31.3
 88 17.7 14.4 21.6

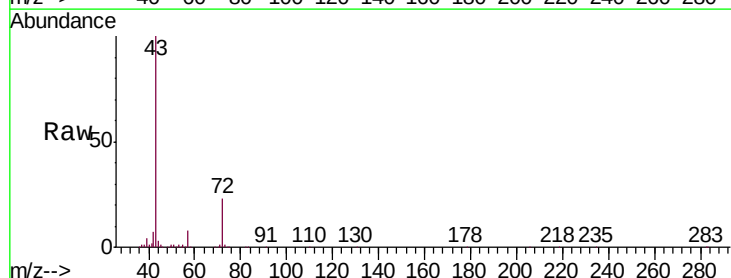


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

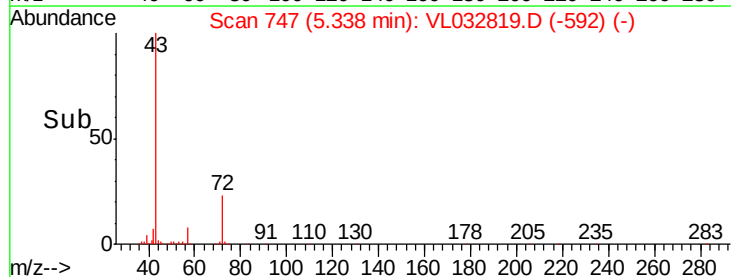
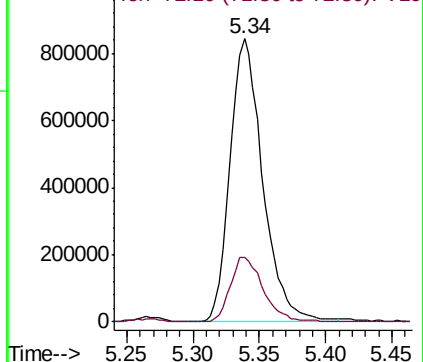


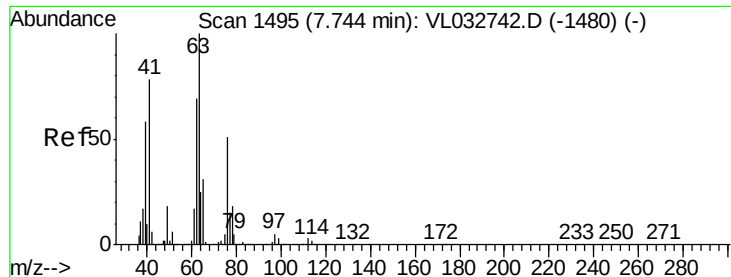
#34
 2-Butanone
 Concen: 8.783 ppbv
 RT: 5.34 min Scan# 747
 Delta R.T. -0.00 min
 Lab File: VL032819.D
 Acq: 27 Nov 2018 22:47

Tgt Ion: 43 Resp: 1447472
 Ion Ratio Lower Upper
 43 100
 72 23.1 18.4 27.6



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#39

1,2-Dichloropropane

Concen: 8.333 ppbv

RT: 7.30 min Scan# 1357

Delta R.T. -0.44 min

Lab File: VL032819.D

Acq: 27 Nov 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03DL

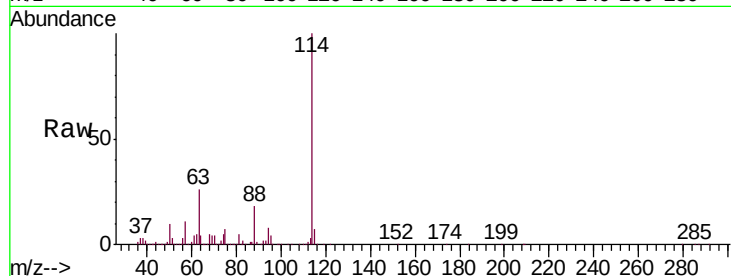
Tgt Ion: 63 Resp: 803300

Ion Ratio Lower Upper

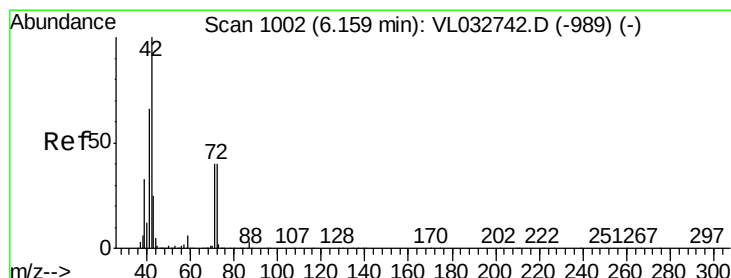
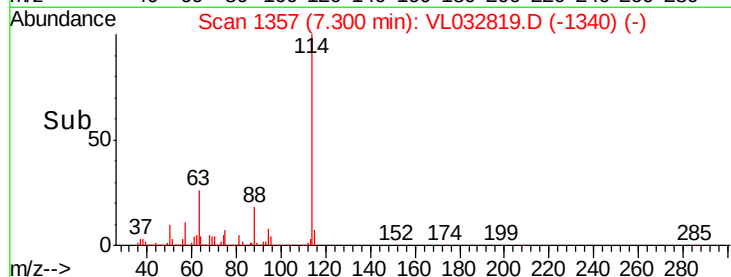
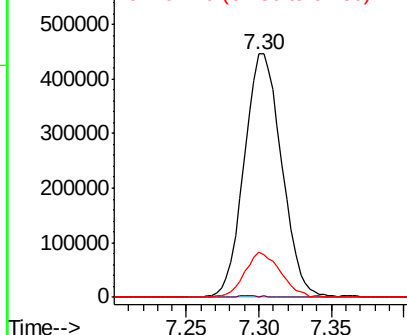
63 100

41 0.2 62.0 93.0#

62 18.6 55.4 83.2#



Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0



#41

Tetrahydrofuran

Concen: 0.347 ppbv

RT: 6.18 min Scan# 1008

Delta R.T. 0.02 min

Lab File: VL032819.D

Acq: 27 Nov 2018 22:47

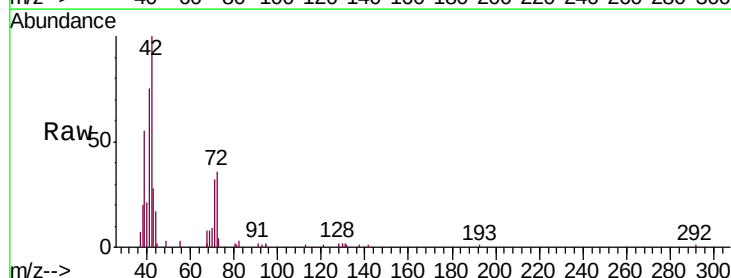
Tgt Ion: 42 Resp: 32776

Ion Ratio Lower Upper

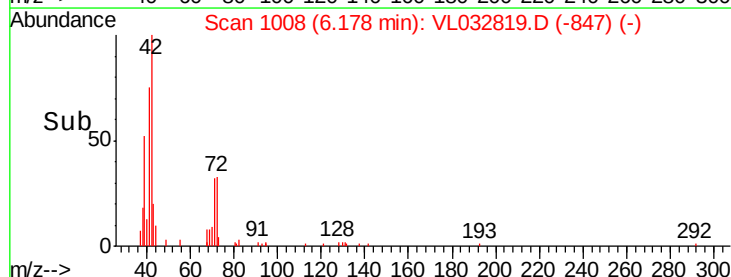
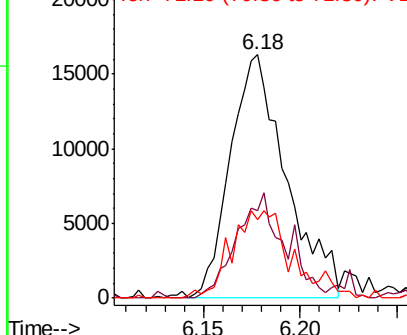
42 100

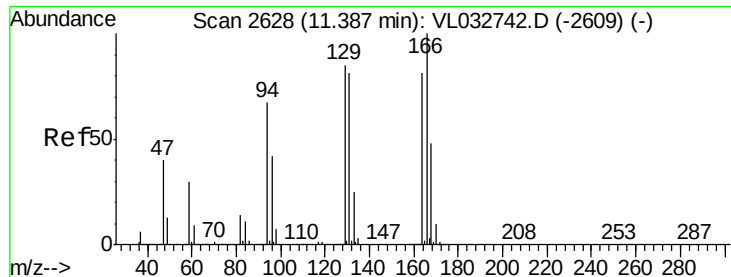
72 40.3 32.4 48.6

71 39.1 31.6 47.4



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0





#52

Tetrachloroethene

Concen: 1.649 ppbv

RT: 11.39 min Scan# 2628

Delta R.T. -0.00 min

Lab File: VL032819.D

Acq: 27 Nov 2018 22:47

Instrument :

MSVOA_L

ClientSampleId :

EP2-SV-03DL

Tgt Ion:164 Resp: 145132

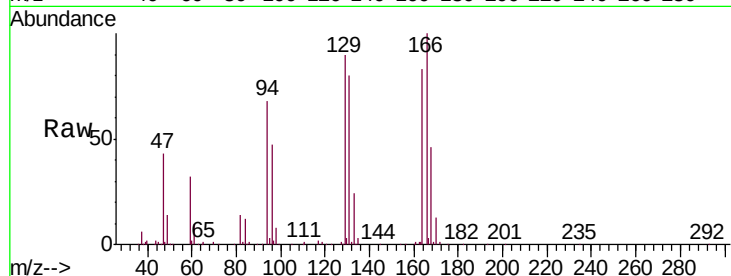
Ion Ratio Lower Upper

164 100

166 120.3 99.3 148.9

129 108.5 83.9 125.9

131 95.7 80.8 121.2

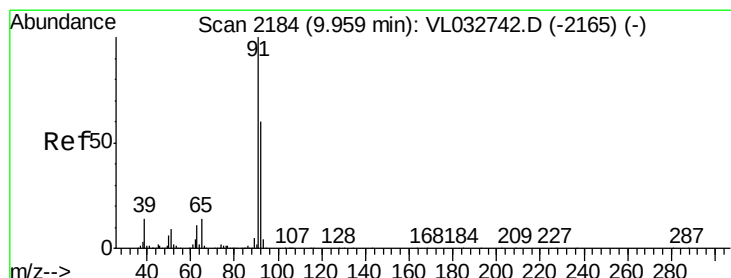
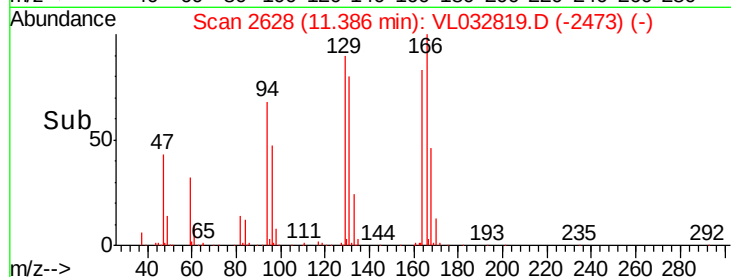
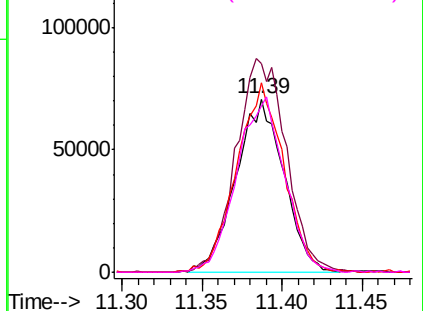


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.098 ppbv

RT: 9.96 min Scan# 2185

Delta R.T. 0.00 min

Lab File: VL032819.D

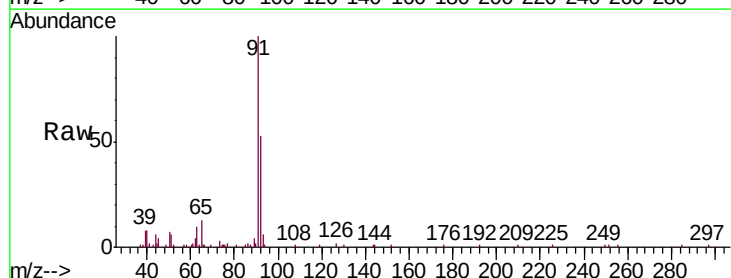
Acq: 27 Nov 2018 22:47

Tgt Ion: 91 Resp: 25864

Ion Ratio Lower Upper

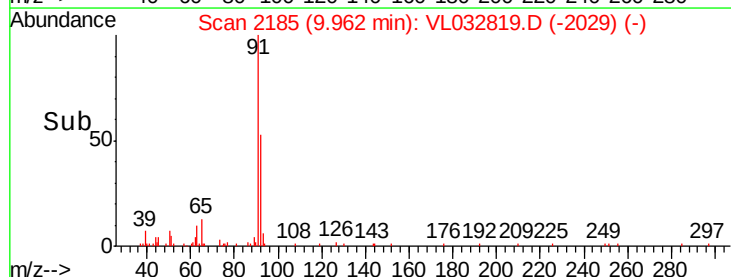
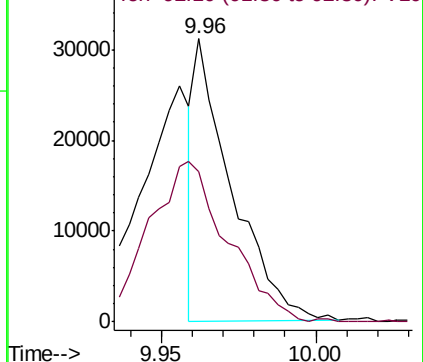
91 100

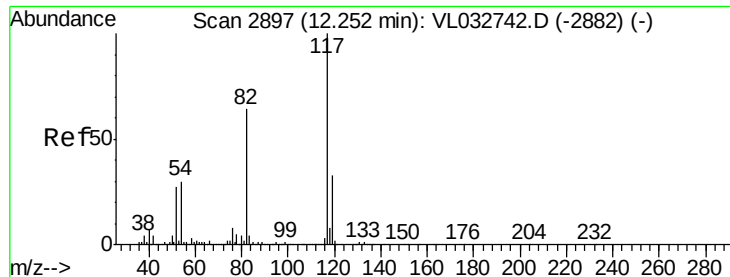
92 125.5 47.9 71.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

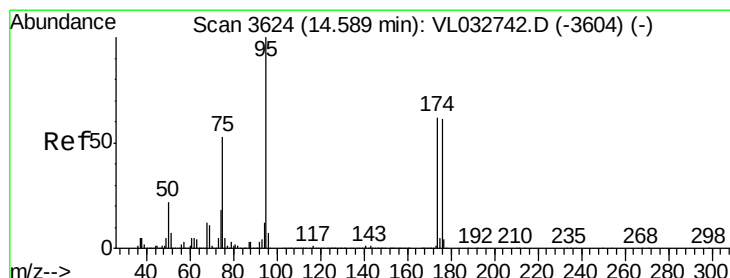
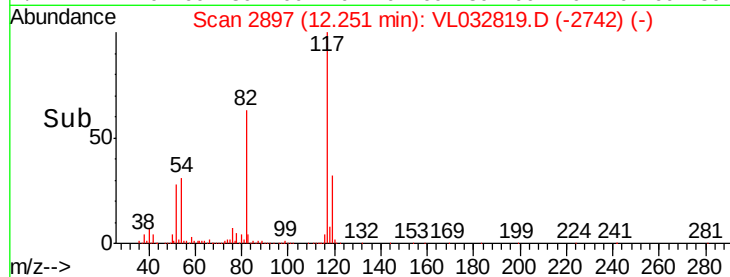
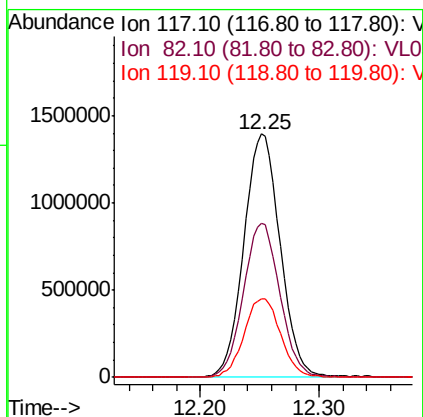
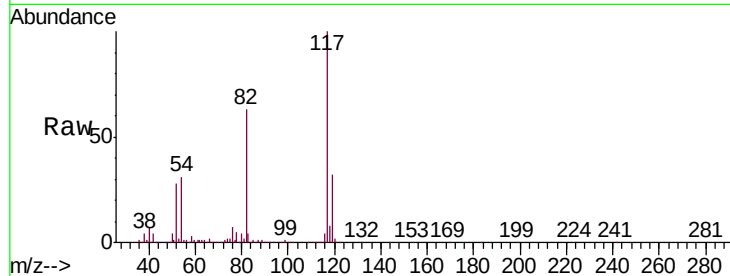




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2897
Delta R.T. -0.00 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

Instrument :
MSVOA_L
ClientSampleId :
EP2-SV-03DL

Tgt Ion: 117 Resp: 2945310
Ion Ratio Lower Upper
117 100
82 64.3 51.0 76.6
119 32.8 28.0 42.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.749 ppbv
RT: 14.59 min Scan# 3624
Delta R.T. -0.00 min
Lab File: VL032819.D
Acq: 27 Nov 2018 22:47

Tgt Ion: 95 Resp: 2147643
Ion Ratio Lower Upper
95 100
174 65.8 50.7 76.1
175 4.8 3.8 5.6

